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CURRENT SERIAL RECORDS

WATER SUPPLY OUTLOOK and FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS for IDAHO

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,
and
IDAHO STATE RECLAMATION ENGINEER

Data included in this report were obtained by the agency named above in cooperation with the Comptroller of Water Rights of British Columbia, and Federal, State and private organizations listed on the last page of this report.

AS OF
APR. 1, 1965

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Water Supply Outlook Reports:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from advance estimates of the streamflow.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, up to 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1400 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

Streamflow forecasts are obtained by a comparison of total or maximum snow accumulation, as measured by snow water equivalent, to the subsequent spring and summer or snowmelt season runoff over a period of years. The snow water equivalent measured in selected snow courses provides most of the index to the streamflow forecast for the following season. More accurate forecasts are usually obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast procedure. Early season forecasts assume average climatic conditions through the snowmelt season.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions. Soil Conservation Service Reports may be secured from Soil Conservation Service, 511 N.W. Broadway - Room 507, Portland, Oregon 97209.

PUBLISHED BY SOIL CONSERVATION SERVICE

<u>REPORTS</u>	<u>ISSUED</u>	<u>LOCATION</u>	<u>COOPERATING WITH</u>
RIVER BASINS			
WESTERN UNITED STATES			
MONTHLY (FEB.-MAY)	PORTLAND, OREGON	ALL COOPERATORS	
BASIC DATA SUMMARY			
OCTOBER 1	PORTLAND, OREGON	ALL COOPERATORS	
STATES			
ALASKA	MONTHLY (MAR.-MAY)	PALMER, ALASKA	ALASKA S.C.D.
ARIZONA	SEMI-MONTHLY (JAN.15 - APR.1)	PHOENIX, ARIZONA	SALT R. VALLEY WATER USERS ASSOC. ARIZ. AGR. EXP. STATION
COLORADO AND NEW MEXICO	MONTHLY (FEB.-MAY)	FORT COLLINS, COLORADO	COLO. STATE UNIVERSITY COLO. STATE ENGINEER N. MEX. STATE ENGINEER
IDAHO	MONTHLY (JAN.-JUNE)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
MONTANA	MONTHLY (JAN.-JUNE)	BOZEMAN, MONTANA	MONT. AGR. EXP. STATION
NEVADA	MONTHLY (JAN.-MAY)	RENO, NEVADA	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JAN.-JUNE)	PORTLAND, OREGON	OREG. STATE UNIVERSITY OREGON STATE ENGINEER
UTAH	MONTHLY (JAN.-JUNE)	SALT LAKE CITY, UTAH	UTAH STATE ENGINEER
WASHINGTON	MONTHLY (FEB.-JUNE)	SPOKANE, WASHINGTON	WN. STATE DEPT. OF CONSERVATION
WYOMING	MONTHLY (FEB.-JUNE)	CASPER, WYOMING	WYOMING STATE ENGINEER

PUBLISHED BY OTHER AGENCIES

<u>REPORTS</u>	<u>ISSUED</u>	<u>AGENCY</u>
BRITISH COLUMBIA	MONTHLY (FEB.-JUNE)	WATER RESOURCES SERVICE, DEPT. OF LANDS, FOREST AND WATER RESOURCES, PARLIAMENT BLDG., VICTORIA, B.C., CANADA
CALIFORNIA	MONTHLY (FEB.-MAY)	CALIF. DEPT. OF WATER RESOURCES, P.O. BOX 388, SACRAMENTO, CALIF.

WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
IDAHO

Report prepared by
MORLAN W. NELSON Snow Survey Supervisor

and
J. ALDEN WILSON Asst. Snow Survey Supervisor

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
P.O. BOX 38, BOISE, IDAHO 83701

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WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR APRIL 1, 1965

The KOOTENAI RIVER has a snow pack 107 percent of normal with forecasts of flow in the same range. Cool temperatures and storms during the last week

of March and first part of April will contribute to snow accumulation on this watershed at the high elevations, but at this time, snow cover is close to normal at all elevations.

The SPOKANE RIVER has a near normal snow pack; however, new courses established at high elevations indicate snow cover at the tops of the mountains may be above average. At this time, it is not possible to interpret the effect of these new courses on the forecasts for the river. Storm patterns, near the first of April, indicate that snow cover is still building on this watershed.

The CLEARWATER RIVER has a heavy snow pack with new snow courses indicating it may be unusually heavy at high elevations. The storms occurring near the end of March and the first of April are adding water to the snow pack and delaying the snow melt which would normally have started at the low and intermediate elevations of the watershed. The delayed snow melt and increased snow water means that significantly more water will have to run off in less time, with the possibility of damaging flows if snow melt is continuous and rapid on the drainage.

Several snow courses on the SALMON RIVER have considerably more water at this time than has ever been recorded since measurements began in 1936. The snow melt has been delayed and new snow added since the April 1 measurements were completed. Unusually high volume and peak flows are forecast for this river even with normal conditions for the remainder of the season.

The SNAKE, HENRY'S FORK and the TETON all have a relatively heavy snow pack, but not of record-breaking proportions, such as the watersheds immediately adjacent to the west. New storms, just after snow measurements were taken, have added as much as four inches of water during the first five days of April and the last few days of March. Reservoirs along the main stem of the Snake have been lowered for multiple-purpose flood control operations this spring. Delayed snow melt and new storms could raise forecasts slightly on these rivers between now and the first of May.

The RAFT RIVER, GOOSE CREEK, TRAPPER CREEK, SALMON FALLS CREEK, BRUNEAU and Owyhee RIVERS which are notoriously short of water, can all expect excellent water supplies for 1965. Reservoir storage on all of these rivers, excepting the Owyhee River, are more than adequate to accommodate forecasted flows, even in the event of heavy rainfall during the snow-melt period. The Oakley and Salmon Falls Creek reservoirs should have carryover storage from the 1965 season. Soil moisture measurements on all of these drainages are showing very moist or saturated soils at intermediate and high elevations. Ordinarily, the deep soils on these watersheds absorb a considerable portion of the snow pack, but this year, practically all of the snow melt and precipitation during the spring season is expected to run off.

The BIG LOST RIVER has the heaviest snow pack ever experienced since snow measurements began in 1936. The snow is underlain by saturated soils and, therefore, not expected to absorb significant amounts of snow melt or spring precipitation. The combination of these two factors result in a forecast of streamflow on this river greater than has ever been recorded. This forecast assumes normal precipitation for April and May, but storms during the first part of April indicate the month has started far above normal. These factors strongly support the possibility of a record flow for the Big Lost River. Snow cover on the LITTLE LOST RIVER is difficult to interpret because snow courses have a short period of record. However, it does not appear as heavy a snow cover as the Big Lost River.

The BIG and LITTLE WOOD RIVERS have a record-breaking snow pack underlain by saturated or very moist soils. Forecasts on these rivers are for unusually high volume flows, increased by the delayed snow melt and additional snowfall that has occurred during the last of March and the first few days of April. The towns and property owners affected by heavy volume flows on these two rivers should make definite plans for handling the high flows forecast. Normal spring conditions during April would produce damaging high flows. A dry, even snow melt would lessen the speed and volume of runoff somewhat, whereas, a wet spring would produce damaging high flows sustained for a relatively long period.

The BOISE RIVER drainage has several snow courses which exceed the all-time record for water content. Cold nights and warm days in March have melted the south slopes and low elevation snow cover, creating a highly desirable situation when such heavy snow cover remains above. These conditions allowed significant amounts of stored water to be released for multiple-purpose flood control operations when the major snow melt begins this month.

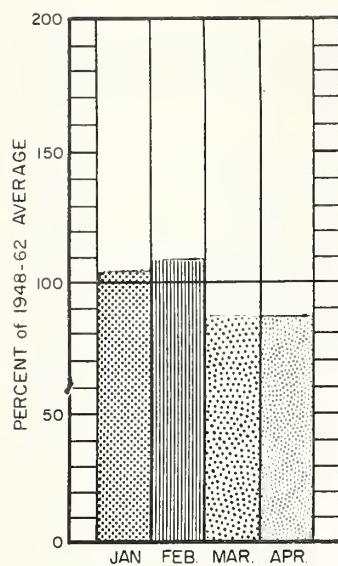
The Big Creek Summit snow course on the PAYETTE RIVER has a snow-water content exceeding anything since it was established in 1936. In the first few days of April, new snowfall has occurred giving this course a substantial margin over anything in its past record. Other snow courses on this drainage are unusually high but not of that magnitude. The south slopes in general have lost all their snow at the low and intermediate elevations. This situation is desirable, but not significant in reducing the total volume expected from this river. The delayed snow melt and unknown increase in snow-water content indicate fast high volume flows might again occur on the Payette River this spring even under normal conditions. Each day past the first of April that the major snow melt is delayed means that the same amount of water or possibly more must come down the river in less time.

SQUAW CREEK has an extremely heavy snow pack over saturated soil at intermediate and high elevations. Sage Hen Reservoir has little or no flood control capability. These factors strongly indicate the possibility of damaging high flows on this stream when the major snow melt occurs.

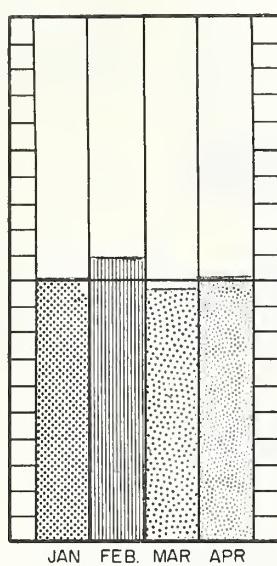
MONTPELIER CREEK has four new snow courses without sufficient record for forecasting interpretation. Older courses adjacent to this watershed and the new courses indicate that Montpelier Creek has an extremely heavy snow pack. Snow melt has been delayed, even at lower portions of this watershed, indicating the possibility of high volume and peak flows on this creek through the City of Montpelier. Warm days and cold nights would reduce the speed and height of runoff but not eliminate it entirely. GEORGETOWN CREEK has a similar snow cover and high flow potential.

SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1948-62 15Yr. Average

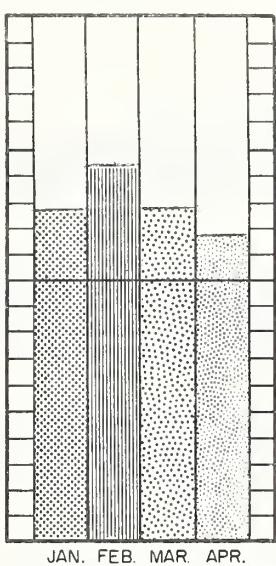
APRIL 1, 1965



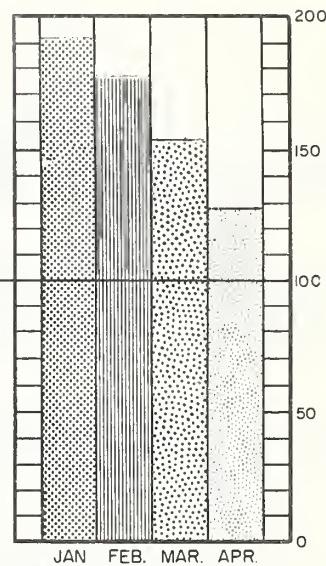
Benton Spring



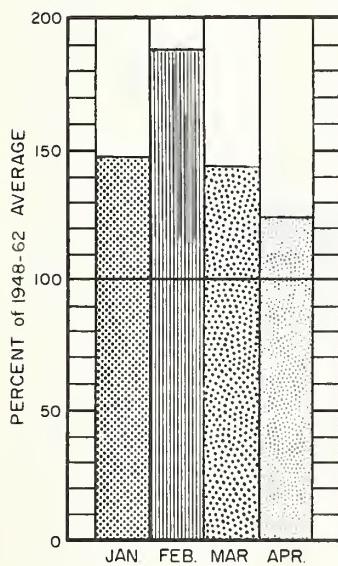
Lookout



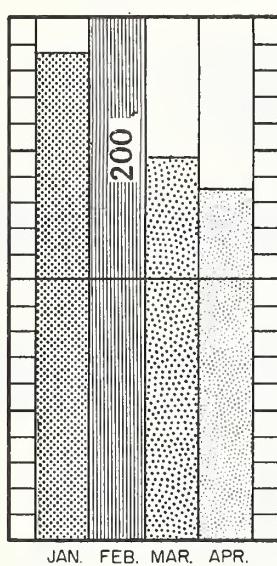
Pierce Ranger Sta.



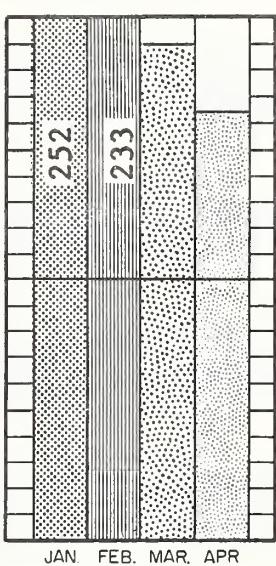
Big Creek Summit



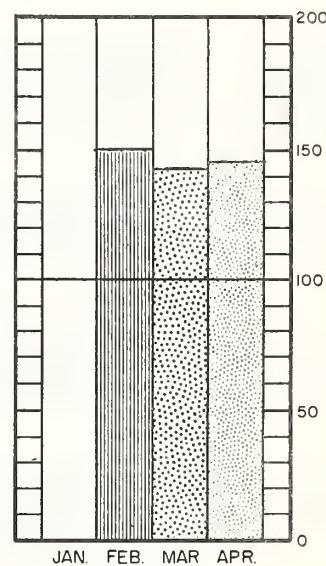
Bogus Basin



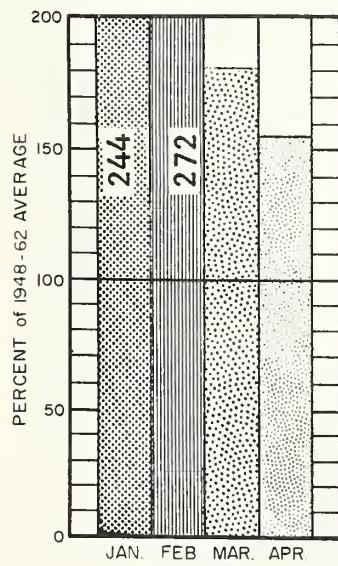
Atlanta Summit



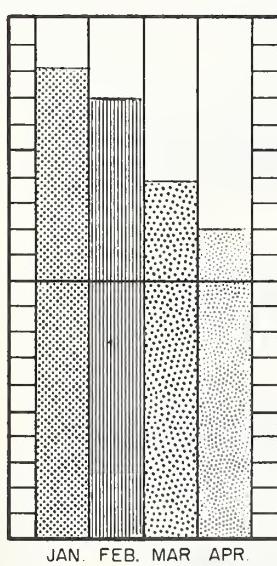
Galena



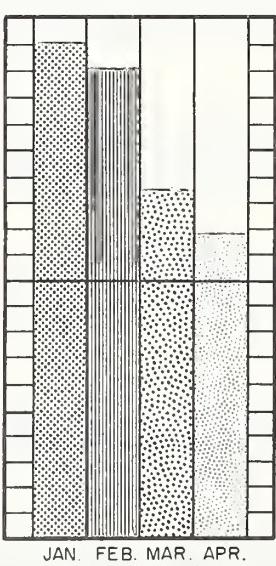
Moose Creek



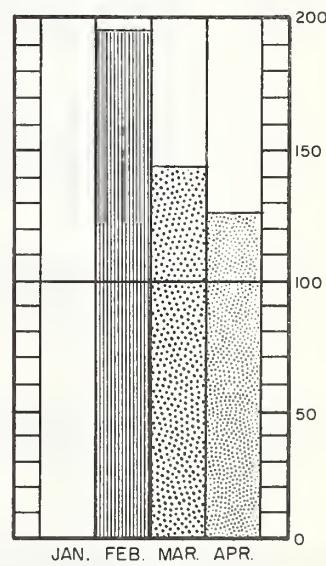
White Knob



Magic Mountain



Island Park



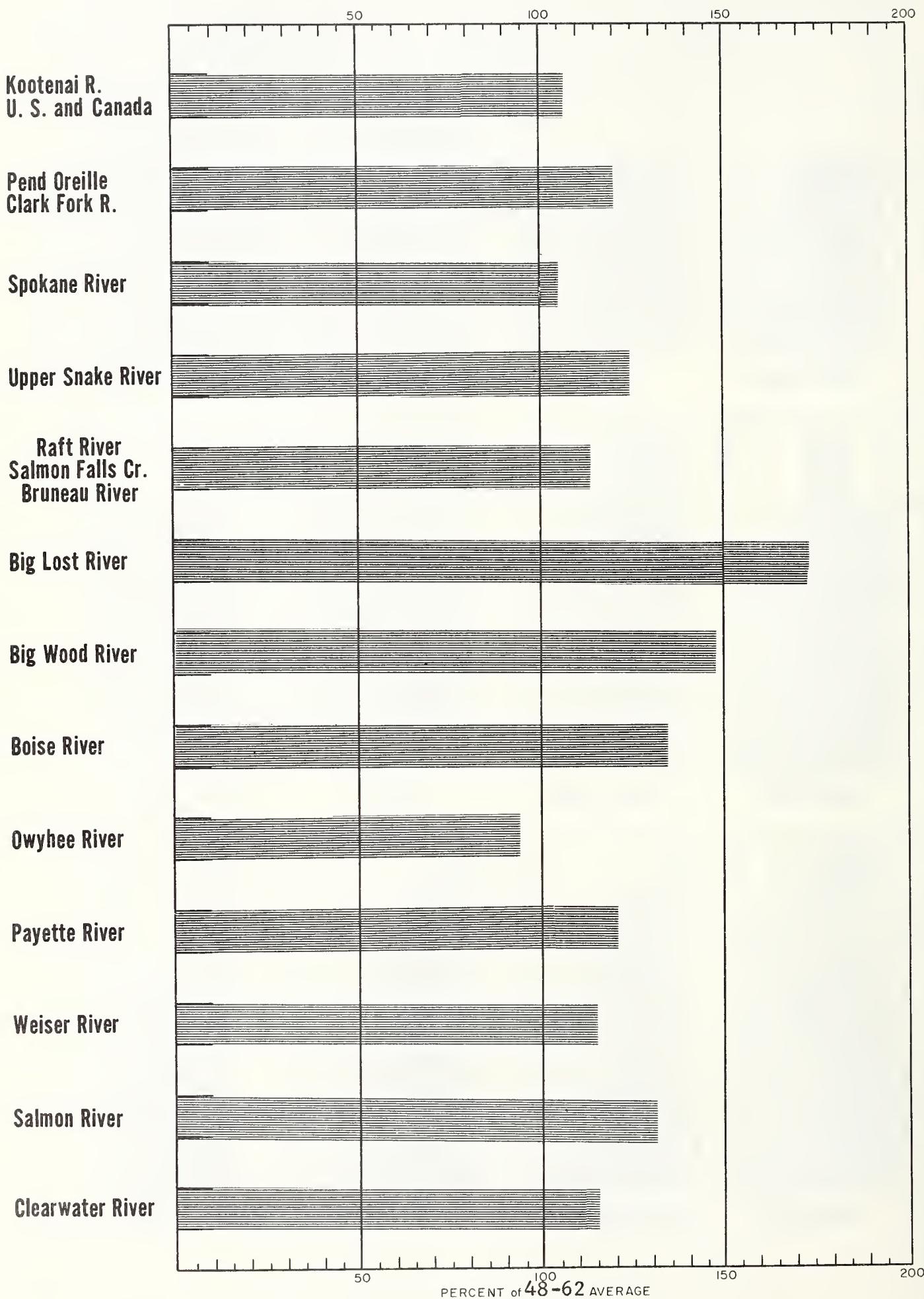
Somsen Ranch

SNOW WATER DEPTHS
BY DRAINAGE

Compared To The 1948-62 15 Yr. Average

Snow Cover as of Approximately

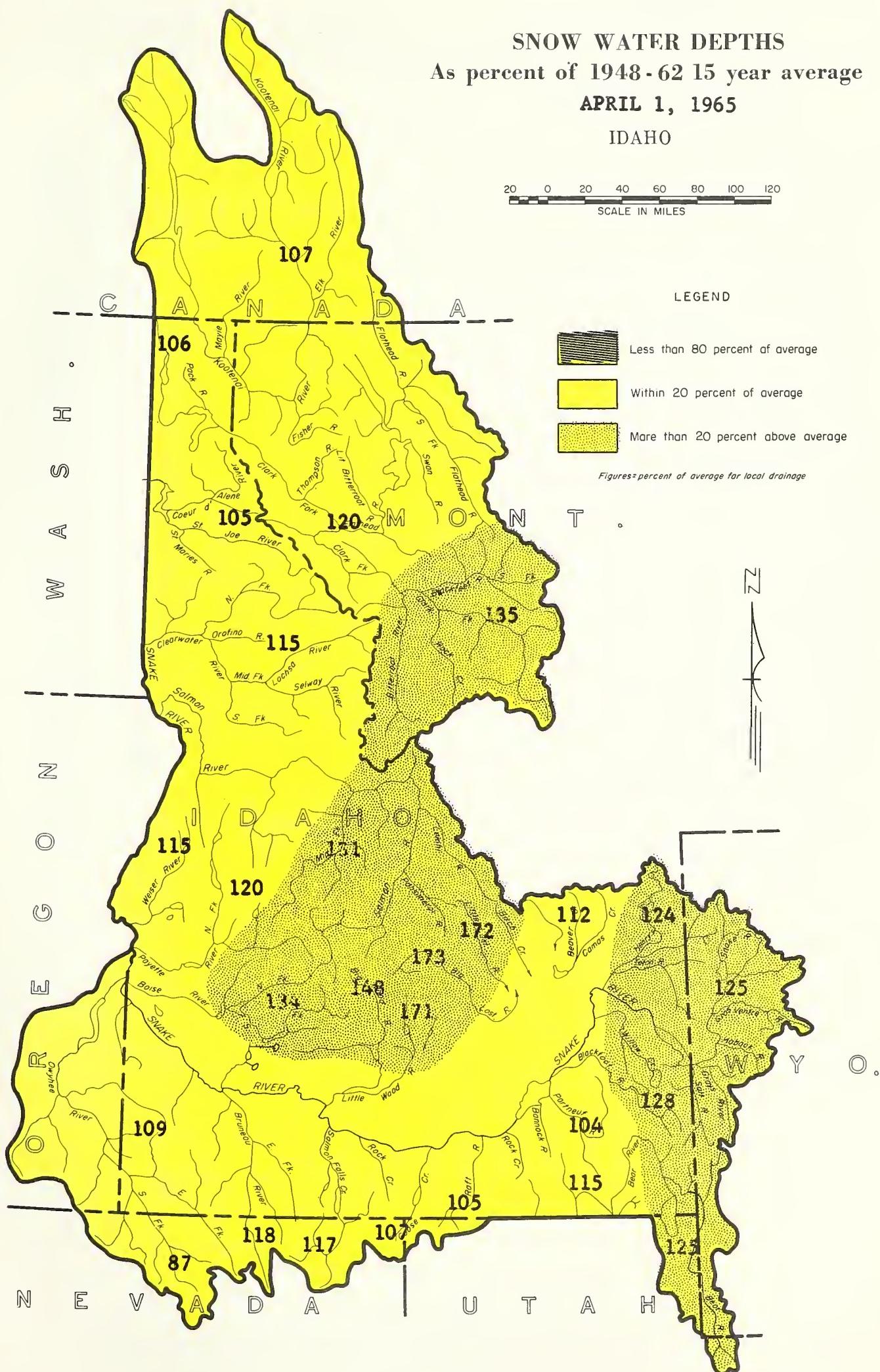
APRIL 1, 1965



SNOW WATER DEPTHS
As percent of 1948-62 15 year average
APRIL 1, 1965

IDAHO

20 0 20 40 60 80 100 120
SCALE IN MILES



COMPARISON of SNOW COVER

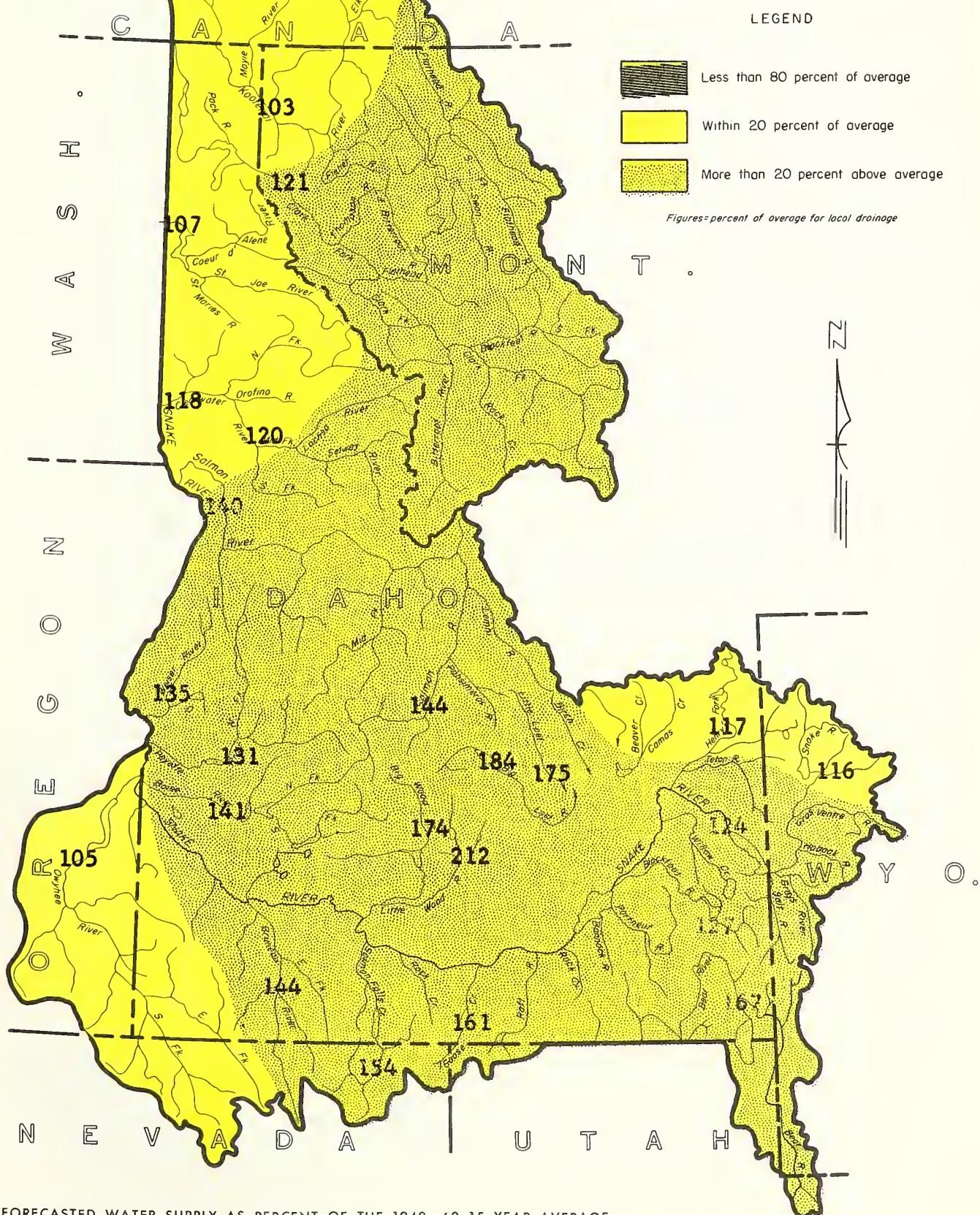
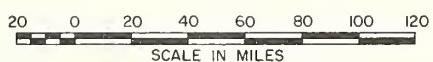
RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF :	
		LAST YEAR	1948-62 AVERAGE
<u>UPPER COLUMBIA BASIN</u>			
Kootenai River	15	111	107
Pend Oreille-Clark Fork	59	115	120
Priest River	2-4	91	106
Spokane River	12-14	91	105
<u>SNAKE BASIN</u>			
Upper Snake River	31	136	125
Medicine Lodge-Mud Lake	3-5	134	112
Henry's Fork River	4-7	130	124
Teton River	2-4	124	114
Blackfoot River	4	109	128
Portneuf River	3	99	104
Raft River	4-7	109	105
Goose Creek	3-4	111	107
Salmon Falls Creek	9-11	106	117
Bruneau River	5	123	118
Little Lost River	5	129	172
Big Lost River	5-10	195	173
Big Wood River	9-10	164	148
Little Wood River	5-6	183	171
Boise River	13-19	133	134
Owyhee River - Nevada	8	92	87
Owyhee River - Idaho	3-7	60	109
Payette River	12-15	128	120
Weiser River	2-4	122	115
Salmon River	14-19	141	131
Lemhi River	7	151	--
Clearwater River	12-22	102	115
Palouse River	5	48	98
<u>GREAT BASIN</u>			
Upper Bear River	24	136	125
Montpelier Creek	4	130	--
Mink Creek	4-7	141	118
Cub River	3	109	115
Malad River	2	67	115

PROSPECTIVE STREAMFLOW

Based on Snow Surveys made on approximately

APRIL 1, 1965

IDAHO



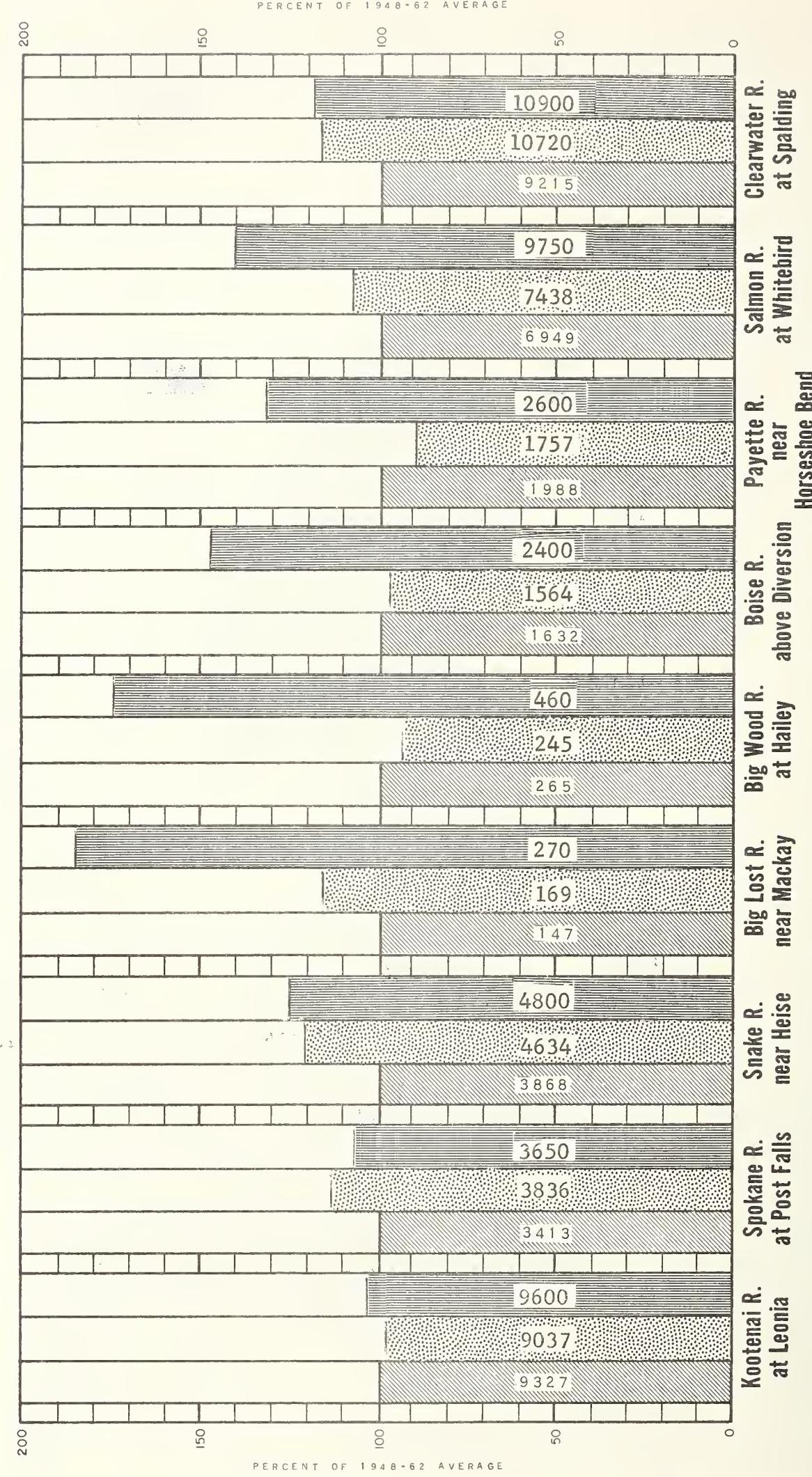
FORECASTED WATER SUPPLY AS PERCENT OF THE 1948-62 15 YEAR AVERAGE

STREAMFLOW FORECASTS (April through September period)

Based on Snow Surveys made on approximately

APRIL 1, 1965

LAST YEARS FLOW 15 YR. AVERAGE FLOW 1948-62 123 FLOW IN THOUSANDS OF ACRE FEET THIS YEARS FORECAST



STREAMFLOW FORECASTS^c(1,000 Ac. Ft.)

STREAM and/or FORECAST POINT	FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	1948-1962 AVERAGE	THIS YEAR AS PERCENT OF AVERAGE
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UPPER COLUMBIA BASIN

KOOTENAI RIVER

Leonia	(at)	9600 8450 6800	Apr-Sep Apr-Jul Apr-Jun	9037 7842 6223	9327 8179 6601	103 103 103
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PEND OREILLE RIVER

Clark Fork River

Whitehorse Rapids	(at)	17400 15900 13700	Apr-Sep Apr-Jul Apr-Jun	15512 14045 11801	14398 13187 11318	121 121 121
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Priest River

Priest River 1/	(nr)	970	Apr-Jul	793	954	102
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SPOKANE RIVER

Post Falls 2/	(at)	3650	Apr-Sep	3836	3413	107
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Coeur d'Alene River

Cataldo	(nr)	1470 1410	Apr-Sep Apr-Jul	1543 1468	1377 1317	107 107
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St. Joe River

Calder	(at)	1550 1490	Apr-Sep Apr-Jul	1508 1422	1453 1383	107 108
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SNAKE RIVER BASIN

SNAKE RIVER - MAIN STEM

Moran 3/ Heise 4/ Blackfoot 5/ Weiser	(at) (nr) (nr) (at)	1000 4800 4900 8600	Apr-Sep Apr-Sep Apr-Jul Apr-Sep	-- 4634 4515 7042	865 3868 3976 6949	116 124 124 124
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Henry's Fork

Ashton 6/ Rexburg 7/	(nr) (nr)	715 1470	Apr-Sep Apr-Sep	685 1501	610 1258	117 117
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Teton River

St. Anthony	(nr)	520	Apr-Sep	516	402	129
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Blackfoot River

Blackfoot Reservoir Inflow		130	Apr-Sep	--	102	127
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Portneuf River

Topaz	(at)	105	Mar-Sep	88	89	118
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(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake.
 2/ Observed flow corrected for storage in Coeur d'Alene Lake and diversions by Spokane Valley Farms Company and Rathdrum Prairie canals. 3/ Corrected for storage in Jackson Lake. 4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.

STREAMFLOW FORECASTS^c(1,000 Ac. Ft.)

STREAM and/or FORECAST POINT	FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	1948-1962 AVERAGE	THIS YEAR AS PERCENT OF AVERAGE
<u>Oakley Reservoir Inflow</u>	36	Mar-Sep	34.9	22.4	161
<u>Salmon Falls Creek</u>					
San Jacinto	(nr)	120 117	Mar-Sep Mar-Jul	102 98	78 76
<u>Bruneau River</u>					
Hot Springs	(nr)	310	Mar-Sep	237	215
<u>Little Lost River</u>					
Howe	(nr)	65	Mar-Sep	39	37
<u>Big Lost River</u>					
Howell Ranch	(at)	240	Apr-Jun	128	131
Mackay 1/	(nr)	270	Apr-Sep	169	147
<u>Big Wood River</u>					
Hailey 2/ Magic Reservoir Inflow 3/	(at)	460 540	Apr-Sep Mar-Jul	245 224	265 277
<u>Little Wood River</u>					
High Five Creek	(ab)	170	Apr-Sep	79	80
<u>Boise River</u>					
Twin Springs	(nr)	1050 990	Apr-Sep Apr-Jul	648 597	756 704
Boise 4/	(nr)	2400	Apr-Sep	1564	1632
<u>South Fork</u>					
Anderson Dam 5/	(at)	900	Apr-Sep	481	610
<u>Owyhee River</u>					
Gold Cr., Nev. 6/ Owyhee, Nev. 6/	(nr)	22 74	Apr-Jul	21 78	22 74
Lake Owyhee		400	Apr-Sep	523	381
net inflow 7/		386	Apr-Jul	--	105 364
<u>Payette River</u>					
Horseshoe Bend 8/	(nr)	2600	Apr-Sep	1757	1988
<u>North Fork</u>					
Cascade 9/ Banks 9/	(at) (nr)	780 1000 965	Apr-Sep Apr-Sep Apr-Jul	575 724 688	589 760 725
<u>South Fork</u>					
Banks 10/	(nr)	1370	Apr-Jul	832	1036
					132

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir and diversion in Sharp Ditch. 2/ Combined discharge of Big Wood River and Big Wood Slough corrected for diversions. 3/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 4/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 5/ Corrected for storage in Anderson Ranch Reservoir. 6/ Corrected for storage in Wild Horse Reservoir. 7/ From U.S.B.R. records of inflow. 8/ Corrected for storage in Cascade and Deadwood Reservoirs. 9/ Corrected for storage in Cascade Reservoir. 10/ Corrected for storage in Deadwood Reservoir.

STREAMFLOW FORECASTS^c(1,000 Ac. Ft.)

STREAM and/or FORECAST POINT	FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	1948-1962 AVERAGE	THIS YEAR AS PERCENT OF AVERAGE
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Weiser River

Weiser ab. Crane
Creek 1/

750 Mar-Sep 659 554 135

Salmon River

Whitebird	(at)	9750	Apr-Sep	7438	6949	140
Challis	(nr)	1300	Apr-Sep	796	900	144
		1140	Apr-Jul	690	788	145

Clearwater River

Spalding	(at)	10900	Apr-Sep	10720	9215	118
Kamiah	(at)	6150	Apr-Sep	6136	5130	120
		5900	Apr-Jul	5768	4915	120

North Fork

Ahsahka	(nr)	3970	Apr-Sep	3672	3400	117
		3740	Apr-Jul	3402	3199	117

GREAT BASIN

BEAR RIVER

Harer	(at)	430	Apr-Sep	289	258	167
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Montpelier Creek

Montpelier	(nr)	18	Apr-Sep	15.1	11.8	153
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Cub River

Preston	(nr)	65	Apr-Sep	55	49*	132
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*Partially estimated.

(c) Assuming normal meteorological conditions. 1/ Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth.

RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1948-62 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	1567.0	2099.0	2244.4*
Flathead	1791.0	958.1	722.9	690.8
Pend Oreille	1561.0	429.6	448.0	669.3
Noxon	334.6	150.3	156.6	--
<u>Spokane</u>				
Coeur d'Alene	238.5	104.7	79.6	174.5
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	847.0	478.7	633.5	393.8
Palisades	1200.0	394.9	934.3	--
American Falls	1700.0	1453.2	1562.9	1556.6
Island Park	127.0	127.0	127.0	117.1
Grassy Lake	15.2	12.3	9.0	12.1
Brownlee	980.2	44.7	109.0	--
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	24.5	14.5	20.4
<u>Salmon Falls Creek</u>				
Salmon Falls	182.6	54.9	34.5	29.6
<u>Big Lost</u>				
Mackay	44.2	30.2	38.7	32.8
<u>Big Wood</u>				
Magic	191.5	143.0	116.5	107.3
<u>Little Wood</u>				
Little Wood	30.0	4.6	22.3	12.7*
<u>Boise</u>				
Anderson Ranch	423.2	185.1	247.9	156.2
Arrowrock	286.6	100.0	275.7	200.8
Lucky Peak	278.2	13.9	125.5	169.3*
Lake Lowell (Deer Flat)	169.0	169.0	143.6	146.0
<u>Owyhee</u>				
Owyhee	715.0	638.2	362.9	483.4
<u>Payette</u>				
Cascade	653.2	182.6	294.3	--
Deadwood	161.9	105.9	93.3	76.0
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear Lake	1421.0	948.0	745.3	920.0

*Period of Record.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

APRIL 1, 1965

50 0 50 100 150
SCALE IN MILES

Contents
RESERVOIR
Capacity

429.6
PEND OREILLE
1561.0

104.7
COEUR D'ALENE
238.5

105.9
DEADWOOD
161.9

182.6
CASCADE
653.2

44.7
BROWNLEE
980.2

638.2
OWYHEE
715.0

169.0
LAKE LOWELL
169.0

13.9
LUCKY PEAK
278.2

100.0
ARROWROCK
286.6

185.1
ANDERSON RANCH
423.2

150.3
NOXON
334.6

1567.0
HUNGRY HORSE
3428.0

958.1
FLATHEAD LAKE
1791.0

30.2
MACKAY
44.2

127.0
ISLAND PARK
127.0

12.3
GRASSY LAKE
15.2

478.7
JACKSON LAKE
847.0

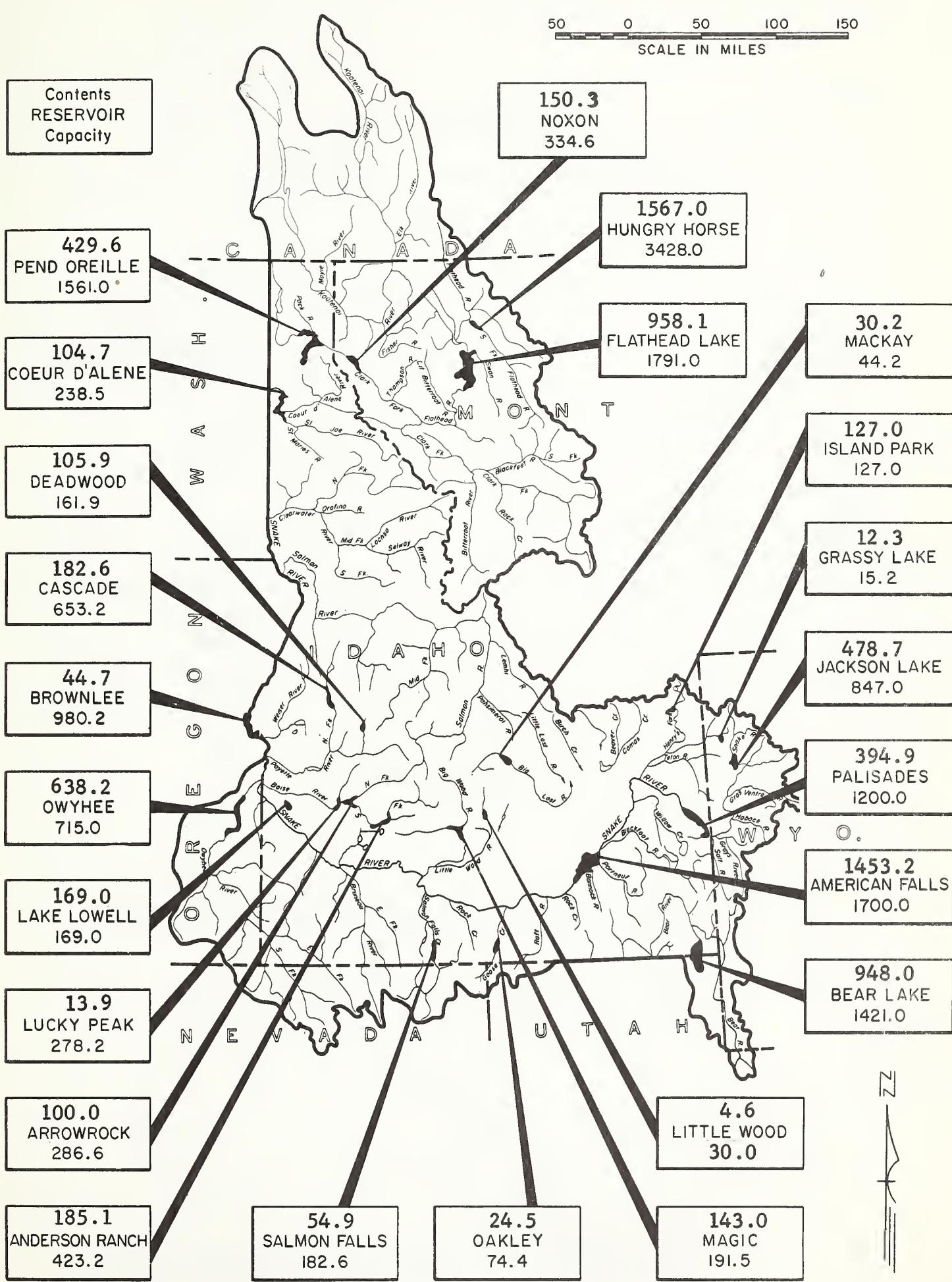
394.9
PALISADES
1200.0

1453.2
AMERICAN FALLS
1700.0

948.0
BEAR LAKE
1421.0

4.6
LITTLE WOOD
30.0

143.0
MAGIC
191.5



VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

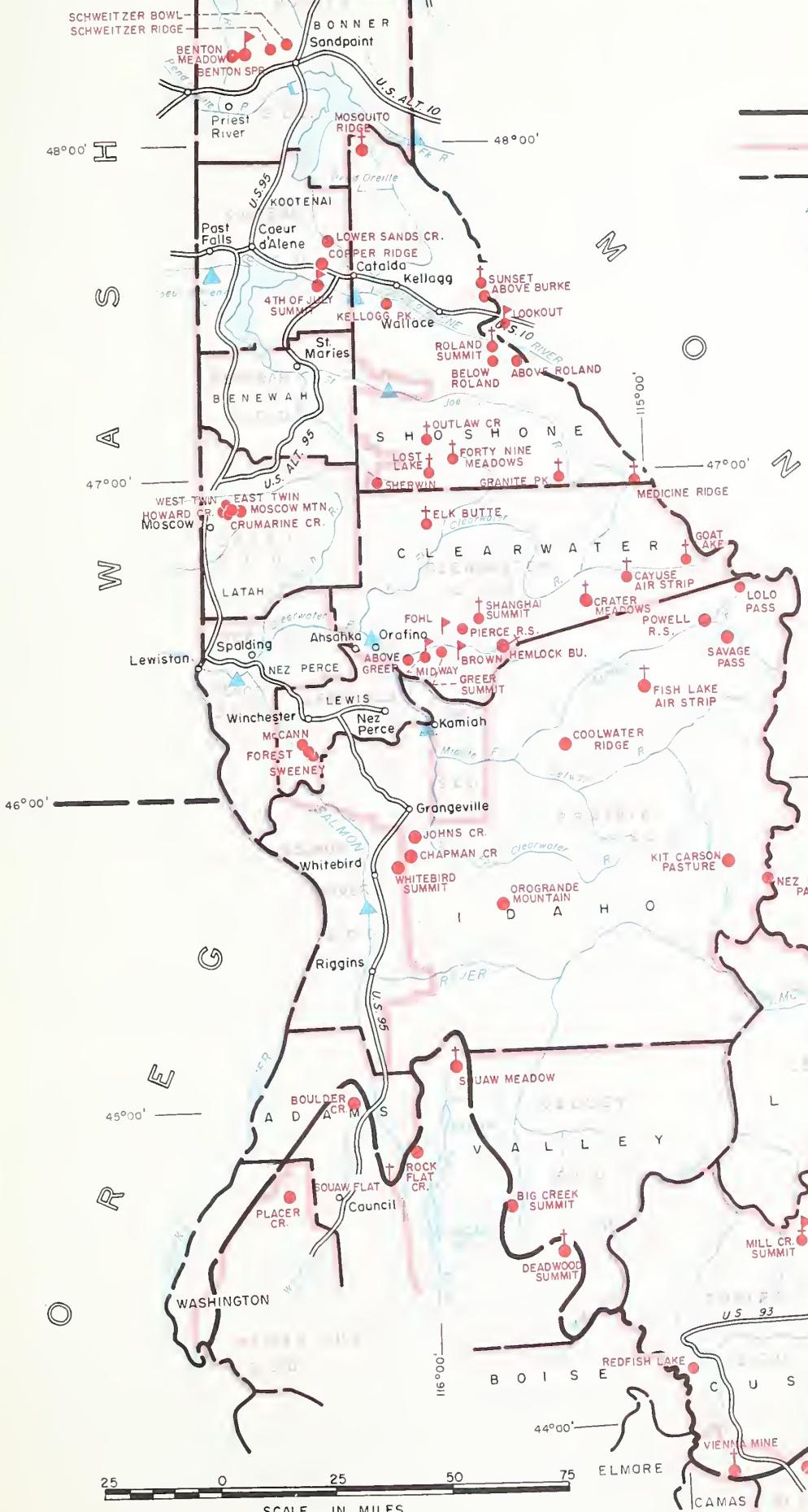
DRAINAGE DIVISIONS	Fall		Winter	
	Sep.-Oct.-Nov. 1964 Observed	Departure 2/ 2/	Dec. 1964-Mar. 1965 Observed	Departure 2/ 2/
Kootenai, Canada & U. S.	7.01	+0.09	11.57	+0.14
Flathead	5.41	-0.18	10.29	+2.40
Clark Fork	1.59	-1.26	6.01	+2.43
Pend Oreille-Spokane	7.26	-1.68	15.32	+0.33
Upper Snake	3.90	-0.80	10.70	+1.79
Snake River Plain	2.28	+0.29	4.41	+0.69
Salmon-Payette-Boise	3.75	-0.66	13.76	+4.42
Clearwater	6.39	-0.65	13.78	+2.82
Southeastern Oregon	2.26	+0.06	5.73	+1.16

1/ Preliminary analysis by U. S. Weather Bureau from data furnished by Meteorological Service of Canada and U. S. Weather Bureau.

2/ Departure from 15-year (1948-62) drainage division average.

C A N A D A

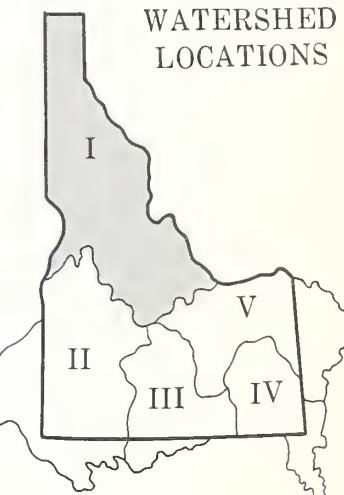
KOOTENAI, PEND OREILLE, SPOKANE, PALOUSE, CLEARWATER, SALMON WATERSHEDS



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- Aerial Snow Depth Gage
- Soil Moisture Station

WATERSHED LOCATIONS



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP. OR LAT.	RGE. AND LONG.	ELEV.	NO.	STATE	NAME	SEC.	TWP. OR LAT.	RGE. AND LONG.	ELEV.						
KOOTENAI RIVER																			
16A1	I	Smith Creek	29	64N	3W	4800	16D2	I	Chapman Creek	16	29N	2E	4215						
PRIEST RIVER																			
16A2	I	Benton Meadow	27	53N	4W	2344	13E17A	I	Copes Camp	36	18N	22E	7500						
16A3M	I	Benton Spring	30	58N	3W	4900	13D17a	I	Gertson Creek	22	22N	23E	8050						
16A6	I	Schweitzer Bowl	20	2W	58N	4500	13D2	M	Gibbons Pass	4	2S	19W	7100						
16A5	I	Schweitzer Ridge	19	2W	58N	6100	13D9	M	Gold Stone	11	8S	16W	8100						
SPOKANE RIVER																			
15B8	I	Above Burke	11	48N	5E	4100	13E20A	I	Hall Creek	1	16N	27E	7560						
15B7	I	Above Roland	35	47N	6E	4350	16D3	I	Johns Creek	9	29N	2E	3805						
15B6	I	Below Roland	34	47N	6E	3770	13E1	M	Lemhi Pass	9	10S	15W	7480						
16B2	I	Copper Ridge	6 & 7	50N	1W	4800	13E13m	I	Lower Big Flat	31	12N	24E	6500						
16B3M	I	Fourth of July Summit	6	49N	1W	3100	13E10m	I	Mahogany Bar	10	10N	23E	7900						
15B13A	I	Granite Peak	3	42N	8E	6000	13E18AM	I	Meadow Lake	24	13N	26E	9100						
16B5A	I	Kellogg Peak	19	48N	3E	5560	14E1MA	I	Mill Creek Summit	8	13N	17E	8870						
15B2M	I	Lookout	4	47N	6E	5250	13D16	I	Moose Creek	22 & 26	27N	21E	6200						
16B1	I	Lower Sands Creek	32	51N	1W	3400	14E4	I	Morgan Creek	32	18N	19E	7580						
15B4A	I	Medicine Ridge	24	43N	10E	6150	14E2	I	Redfish Lake	3	9N	13E	6600						
16A1A	I	Mosquito Ridge	5	54N	2E	5110	13E16A	I	Schwartz Lake	34	18N	22E	8500						
15B12	I	Outlaw Creek	19	44N	5E	3750	13E2	M	Trail Creek	15	10S	15W	7090						
15B5A	I	Roland Summit	26	47N	6E	5200	14E3a	I	Twin Peaks	28	15N	17E	9190						
16C1	I	Sherwin	28 & 33	42N	1E	3200	14F4A	I	Vienna Mine	32	6N	14E	8900						
15B9A	I	Sunset	28	49N	5E	5600	13E2m	I	West Big Flat	35	12N	23E	6550						
BIG LOST RIVER																			
14F15a	I	North Fork Meadow	20	7N	18E	8150	16D5	I	Whitebird Summit	17	29N	2E	4390						
BIG WOOD RIVER																			
14F12M	I	Galena Summit	33	7N	15E	8795	14D4	I	Williams Creek Summit	34	21N	20E	7800						
PAYETTE RIVER																			
15E2M	I	Big Creek Summit	24	15N	5E	6608	CLEARWATER RIVER												
15E4A	I	Deadwood Summit	23	14N	7E	7000	16C11	I	Above Greer	14	35N	2E	1240						
16E1L	I	Rock Flat Summit	1	18N	2E	5200	16C14m	I	Brown	11	35N	3E	3100						
15D2A	I	Squaw Meadow	5	21N	4E	5800	15C3A	I	Cayuse Airstrip	4	38N	11E	3700						
WEISER RIVER																			
16D1	I	Boulder Creek	15	20N	1W	5700	15C7	I	Coolwater Mountain	32	33N	8E	6200						
16E5a	I	Squaw Flat	32	17N	2E	6230	15C9A	I	Crater Meadows	2	37N	9E	6100						
16E2	I	Placer Creek	15 & 16	17N	3W	6000	16C15A	I	Elk Butte	6	40N	3E	5550						
SALMON RIVER																			
13E19AM	I	Above Gilmore	13	13N	26E	8200	15C2A	I	Fish Lake Airstrip	35	35N	11E	5000						
13E21A	I	Aspen-Hall Pass	6	16N	28E	8110	15C8m	I	Fohl	16	36N	5E	3450						
13E11m	I	Big Flat	25	11N	23E	7050	16C9	I	Forest	1	32N	3W	4550						
13E8a	I	Borah	21	10N	23E	8250	15B3	I	Forty-nine Meadows	6	43N	5E	5000						
PALOUSE RIVER																			
16C10	I	Sweeney					14D1	M	Midway	14	35N	2E	2200						
16C6	I	McCann					15D4	M	Nezperce Pass	25	1S	24W	6575						
16C3	I	Howard Creek					15C5	I	Orogrande Mountain	24	27N	6E	7800						
16C5	I	Shanghai Summit					14C8	I	Pierce Ranger Station	2	36N	5E	3171						
16C2	I	West Twin					14C6	I	Powell Ranger Station	33	37N	14E	4230						
16C4	I	Savage Pass					15C4	I	Savage Pass	18	36N	15E	6600						
16C04	I	Shanghai Summit					15C4A	I	Shanghai Summit	7	37N	6E	4600						
16C10	I	Sweeney					16C10	I	Sweeney	1	32N	3W	4435						

LEGEND

Numbering System (example)

- 10J7 SNOW COURSE ONLY.
- 10J7P SNOW COURSE AND PRECIPITATION GAGE.
- 10J7M SNOW COURSE AND SOIL MOISTURE STATION.
- 10J7A SNOW COURSE AND AERIAL MARKER.
- 10J7MA SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
- 10J7MP SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
- 10J7 m SOIL MOISTURE STATION ONLY.
- 10J7 a AERIAL MARKER ONLY.
- 10J7 p STORAGE PRECIPITATION GAGE ONLY.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (inches)	WATER CONTENT (Inches)	AVERAGE <i>b</i>

KOOTENAI RIVER

Smith Creek	16A1	4800	3/30	130	51.3	57.7	50.9
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PEND OREILLE - PRIEST RIVER

Benton Meadow	16A2	2344	3/29	18	8.1	7.9	3.3
Benton Spring	16A3	4900	3/29	56	19.7	24.0	22.9
Schweitzer Bowl	16A6	4500	3/30	86	33.0	32.8	--
Schweitzer Ridge	16A5	6100	3/30	122	48.8	55.8	--

SPOKANE RIVER

Above Burke	15B8	4100	3/12	69	27.0	30.5	22.5
Above Roland	15B7	4350	3/13	84	34.2	38.7	32.3
Below Roland	15B6	3770	3/13	37	14.7	--	15.5
Copper Ridge	16B2	4800	4/2	78	33.4	44.3	33.3
Fourth of July Smt.	16B3	3100	3/29	25	10.2	16.8	11.2
Granite Peak	15B13	6000	3/30	124	54.4	50.4	--
Kellogg Peak	16B5	5560	3/13	86	35.0	34.6	32.3
Kellogg Peak (A)	16B5	5560	3/29	96	37.6	38.4	35.8*
Lookout	15B2	5250	3/13	105	41.0	40.4	36.5
Lookout	15B2	5250	3/29	108	41.0	41.6	40.5
Lower Sands Creek	16B1	3400	4/2	63	23.5	30.4	22.7*
Medicine Ridge	15B4	6150	3/30	131	55.2	49.1	--
Mosquito Ridge	16A4	5110	3/12	104	41.3	44.4	--
Mosquito Ridge (A)	16A4	5110	3/29	109	42.2	48.1	41.2
Outlaw Creek (A)	15B12	3750	3/30	40	14.9	21.9	--
Roland Summit	15B5	5200	3/13	104	42.2	44.0	40.3
Roland Summit (A)	15B5	5200	3/29	103	40.7	41.6	44.7*
Sherwin	16C1	3200	3/28	55	20.4	23.0	15.8
Sunset	15B9	5600	3/12	99	37.5	38.0	32.7
Sunset (A)	15B9	5600	3/29	104	38.4	42.3	36.3*

CLEARWATER RIVER

Above Greer	16C11	1240	4/1	0	0.0	0.0	--
Buck Meadows	15D5	5600	3/29	92	34.9	--	--
Cayuse Airstrip	15C3	3700	3/30	37	13.8	16.3	11.3*
Coolwater Mountain	15C7	6200	3/29	94	37.8	37.5	--
Crater Meadows	15C9	6100	3/30	131	54.8	52.2	--
Elk Butte	16C15	5550	3/30	110	45.9	52.7	--
Fish Lake Airstrip	15C2	5000	3/29	121	54.4	50.5	42.9*
Forest	16C9	4550	3/26	24	8.8	11.6	6.2*
Forty-nine Meadows	15B3	5000	3/30	99	41.6	40.6	39.4
Goat Lake	14C9	6600	3/30	135	59.2	52.8	--
Granite Peak	15B13	6000	3/30	124	54.4	50.4	--
Greer Summit	16C13	3000	4/1	0	0.0	0.0	--
Hemlock Butte	15C6	5500	3/29	144	60.0	66.1	--

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	AVERAGE ^b
						LAST YEAR	

Kit Carson Pasture	14D3	5020	3/29	41	12.6	12.4	9.0
Lolo Pass	14C5	5230	3/26	100	37.9	36.6	36.4*
Lost Lake	15B14	6000	3/30	177	76.3	71.7	--
McCann	16C8	4300	3/26	22	7.7	9.7	6.3*
Medicine Ridge	15B4	6150	3/30	131	55.2	49.1	--
Midway	16C12	2200	4/1	0	0.0	0.0	--
Mountain Meadows	15D6	6300	3/29	83	31.3	--	--
Nez Perce Pass	14D1	6575	3/29	66	23.3	21.0	18.3
Orogrande Mountain	15D4	7800	3/29	134	56.8	43.6	--
Pierce Rgr. Sta.	15C5	3171	3/26	35	13.0	18.1	11.0*
Powell Rgr. Sta.	14C6	4230	3/25	42	16.8	19.5	13.8*
Savage Pass	14C4	6600	3/25	85	32.1	31.6	30.5*
Shanghai Summit	15C4	4600	3/1	76	32.4	36.1	31.6
Sweeney	16C10	4435	3/26	27	9.1	9.6	--

PALOUSE RIVER

Crumarine Creek	16C6	3500	3/27	15	4.3	15.3	4.7*
East Twin	16C3	4000	3/27	32	11.3	26.8	12.3*
Howard Creek	16C5	3500	3/27	9	1.7	12.3	0.0*
Moscow Mountain	16C2	4800	3/27	63	19.1	28.3	21.2*
West Twin	16C4	4200	3/27	39	11.9	17.3	11.2*

LOWER SALMON RIVER

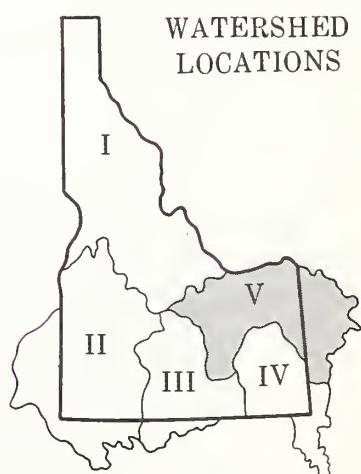
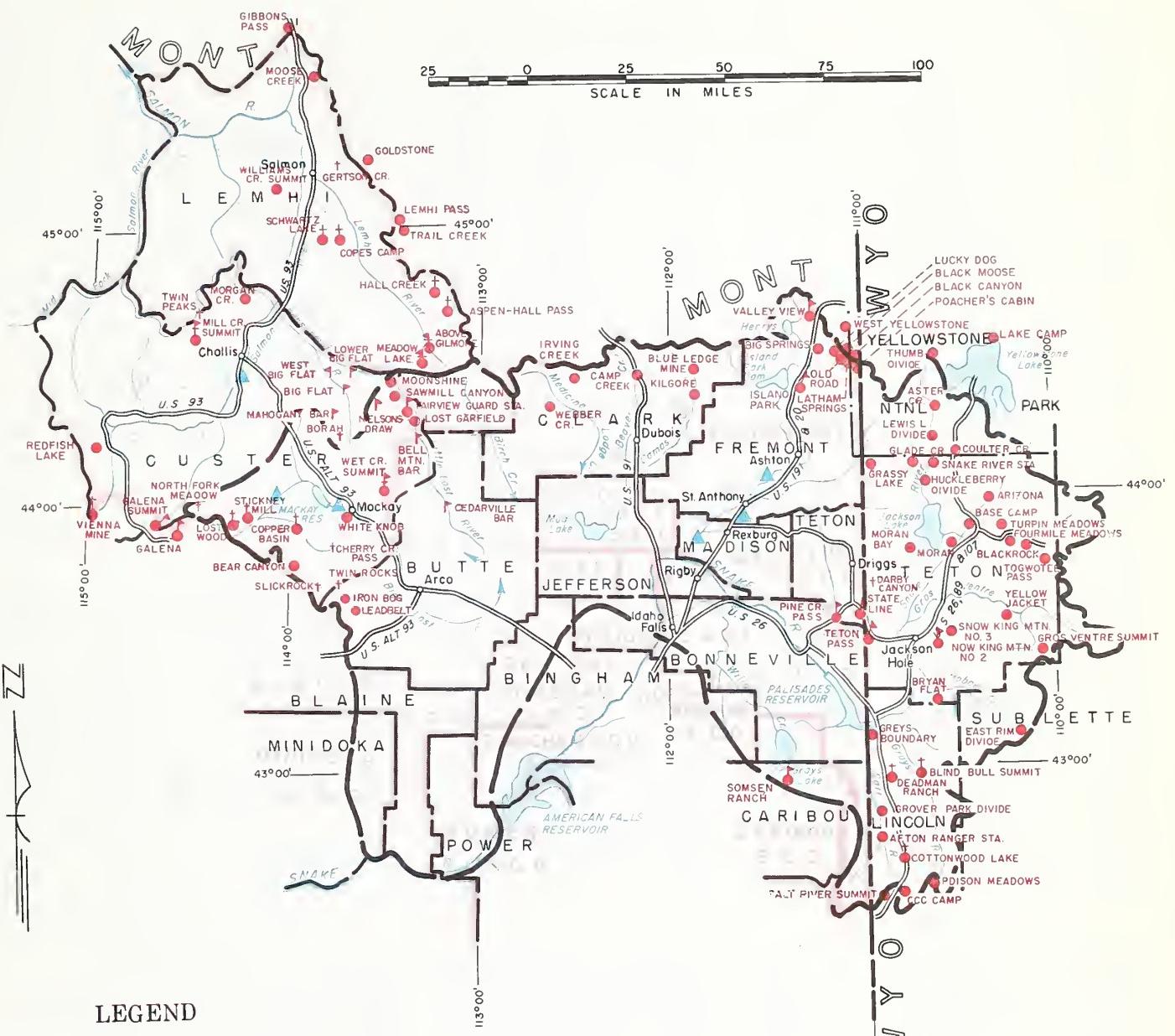
Big Creek Summit	15E2	6600	4/2	122	49.4	32.1	38.5
#Boulder Creek	16D1	5500	3/29	78	33.4	24.4	25.2
Chapman Creek	16D2	4215	3/30	12	5.6	6.7	1.4*
#Deadwood Summit	15E4	7000	3/30	147	60.0	38.6	48.5
Johns Creek	16D3	3805	3/30	0	0.0	4.1	0.8*
#Rock Flat Summit	16E1	5200	3/26	69	23.1	19.3	19.9
#Squaw Flat (A)	16E5	6230	3/28	83	32.6	27.3	--
#Squaw Meadow (A)	15D2	5800	3/28	93	36.5	35.0	41.0
Whitebird Summit	16D5	4390	3/30	27	9.6	9.5	6.4*

UPPER SALMON RIVER

Borah (A)	13E8	8250	4/5	27	7.9	7.2	--
#Galena Summit	14F12	8795	3/29	98	39.4	24.2	24.3*
#Gibbons Pass	13D2	7100	3/28	85	30.5	23.3	25.0
Mill Creek Summit	14E1	8870	3/29	87	37.2	20.7	23.5*
Moose Creek	13D16	6200	3/29	67	24.6	20.5	17.1
Morgan Creek Summit	14E4	7580	3/28	65	23.6	12.9	--
Redfish Lake	14E2	6600	3/22	47	17.2	9.9	--
Twin Peaks (A)	14E3	10300	4/5	93	39.8	24.1	--
Vienna Mine	14F4	8900	3/30	117	52.3	33.6	37.1*
Williams Creek Summit	14D4	7800	3/30	62	22.4	12.7	14.9

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated.

UPPER SNAKE, HENRY'S FORK, TETON, CAMAS - BEAVER CREEK, LITTLE LOST, BIG LOST, UPPER SALMON WATERSHEDS



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. LAT.	TWP. OR ANO	RGE. LONG.	ELEV.	NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.						
SNAKE RIVER - WYOMING																			
10G4	WY	Afton Ranger Station	30	32N	118W	6200	13F3	I	Bear Canyon	26	5N	21E	8600						
10F1	WY	Arizona	3	46N	115W	6850	13F13a	I	Cherry Creek Pass	7	5N	23E	8900						
10E3	WY	Aster Creek	44°17'		110°38'	7700	13F2A	I	Copper Basin	24	6N	21E	8000						
10F2	WY	Base Camp	20	46N	113W	6900	13F11	I	Iron Bog	23	4N	22E	7650						
10F7	WY	Blackrock	4	44N	111W	8600	13F12	I	Leadbelt	34	4N	23E	6800						
10G2A	WY	Blind Bull	6	34N	115W	8750	14F3A	I	Lost Wood Divide	19	6N	19E	8750						
10F14	WY	Bryan Flat	9	38N	115W	6250	14F15a	I	North Fork Meadow	20	7N	18E	8150						
10E3	WY	Canyon	44°44'		110°30'	7750	13F14a	I	Slickrock	17	4N	22E	8640						
10G7	WY	CCC Camp	9	29N	118W	7500	14F2A	I	Stickney Mill	9	6N	19E	7500						
10G5A	WY	Cottonwood Lake	25	31N	118W	7500	13F15a	I	Twin Rocks	22	4N	22E	8100						
10E10	WY	Coulter Creek	44°09'		110°33'	7600	13F1	I	White Knob	25	7N	23E	7700						
10G1A	WY	Deadman Ranch	26	34N	116W	6534	BIG LOST RIVER												
10F17	WY	East Rim Divide	32	37N	111W	7950	13F3	I	Bear Canyon	26	5N	21E	8600						
10F6	WY	Four Mile Meadows	35	45N	112W	7770	13F13a	I	Cherry Creek Pass	7	5N	23E	8900						
10E13	WY	Glade Creek	12	48N	116W	7200	13F2A	I	Copper Basin	24	6N	21E	8000						
10F18	WY	Greys Boundary	33	37N	118W	5800	13F11	I	Iron Bog	23	4N	22E	7650						
10F19	WY	Gros Ventre Summit	36	40N	111W	8750	13F12	I	Leadbelt	34	4N	23E	6800						
10G3	WY	Grover Park Divide	27	33N	118W	7500	14F3A	I	Lost Wood Divide	19	6N	19E	8750						
10E14	WY	Huckleberry Divide	32	48N	115W	7300	14F15a	I	North Fork Meadow	20	7N	18E	8150						
10E4	WY	Lake Camp	44°34'		110°24'	7850	13F14a	I	Slickrock	17	4N	22E	8640						
10E9	WY	Lewis Lake Divide	44°13'		110°40'	7900	14F2A	I	Stickney Mill	9	6N	19E	7500						
10F4	WY	Moran	8 & 17	45N	114W	6800	13F15a	I	Twin Rocks	22	4N	22E	8100						
10F3	WY	Moran Bay	14	45N	116W	6800	13F1	I	White Knob	25	7N	23E	7700						
10E2	WY	Norris Basin	44°44'		110°42'	7500	BIG WOOD RIVER												
10G6	WY	Poison Meadows	29	30N	116W	8500	14F1M	I	Galena	3	6N	15E	7300						
10G8	WY	Salt River Summit	32	29N	118W	7900	14F12M	I	Galena Summit	33	7N	15E	8795						
10E12	WY	Snake River Station	9	48N	115W	6780	SALMON RIVER												
10F20	WY	Snow King Mountain #3	4	40N	117W	7600	13E19AM	I	Above Gilmore	13	13N	26E	8200						
10E5	WY	Sylvan Pass	12	52N	110W	7100	13E21A	I	Aspen-Hall Pass	6	16N	28E	8110						
10E7	WY	Thumb Divide	44°22'		110°35'	7900	13E11m	I	Big Flat	25	11N	23E	7050						
10F9	WY	Togwotee Pass	29	44N	110W	9600	13E8a	I	Borah	21	10N	23E	8250						
10F5	WY	Turpin Meadows	14	45N	112W	6930	13E17A	I	Copes Camp	36	18N	22E	7500						
10F10	WY	Yellowjacket	33	42N	112W	7675	13D2	M	Gertson Creek	22	22N	23E	8050						
HENRYS FORK RIVER																			
11E9	I	Big Springs	34	14N	44E	6500	13D17A	I	Gibbons Pass	4	2S	19W	7100						
11E18	I	Black Canyon	11	13N	45E	7850	13D9	M	Gold Stone	11	8S	16W	8100						
11E19	I	Black Moose	33	14N	45E	8125	13E20A	I	Hall Creek	1	16N	27E	7560						
10E15	WY	Grassy Lake	6	48N	117W	7230	13E1	M	Lemhi Pass	9	10S	15W	7480						
11E10M	I	Island Park	29	13N	43E	6315	13E13m	I	Lower Big Flat	31	12N	24E	6500						
11E16	I	Latham Springs	9	13N	45E	7650	13E10m	I	Mahogany Bar	10	10N	23E	7900						
11E14	I	Lucky Dog	2	13N	45E	6900	13E18AM	I	Meadow Lake	24	13N	26E	9100						
11E15	I	Old Road	12	13N	44E	7250	14E1MA	I	Mill Creek Summit	8	13N	17E	8870						
11E17	I	Poacher's Cabin	11	13N	45E	8000	13D16	I	Moose Creek	22 & 26	27N	21E	6200						
11E8M	I	Valley View	7	15N	44E	6500	14E4	I	Morgan Creek	32	18N	19E	7580						
11E7	M	West Yellowstone	34	13S	5E	6700	14E2	I	Redfish Lake	3	9N	13E	6600						
TETON RIVER																			
10F21a	WY	Darby Canyon	28	43N	118W	8250	13E16A	I	Schwartz Lake	34	18N	22E	8500						
11F2M	I	Pine Creek Pass	24	3N	44E	6750	13E2	M	Trail Creek	15	10S	15W	7090						
11F1M	I	State Line	32	3N	46E	6400	14E3a	I	Twin Peaks	28	-	15N	17E	9190					
10F13M	WY	Teton Pass	24	41N	118W	8500	14F4A	I	Vienna Mine	32	6N	14E	8900						
CAMAS - BEAVER CREEK																			
11E11	I	Blue Ledge Mine	27	13N	33E	6700	13E12m	I	West Big Flat	35	12N	23E	6550						
12E3	I	Camp Creek	21	13N	36E	6800	14D4	I	Williams Creek Summit	34	21N	20E	7800						
11E12	I	Kilgore	6	12N	39E	6200	LEGEND												
MEDICINE LODGE CREEK																			
12E4	I	Irving Creek	8	13N	33E	7035	10J7		SNOW COURSE ONLY.										
12E5	I	Webber Creek	23	12N	32E	6700	10J7P		SNOW COURSE AND PRECIPITATION GAGE.										
LITTLE LOST RIVER																			
13F16m	I	Cedarville Bar	31	7N	28E	5400	10J7M		SNOW COURSE AND SOIL MOISTURE STATION.										
13E5M	I	Fairview Guard Station	27	12N	26E	6750	10J7A		SNOW COURSE AND AERIAL MARKER.										
13E15m	I	Bell Mtn. Bar	36	11N	26E	6640	10J7MA		SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.										
13E3	I	Lost-Garfield	3	11N	26E	6600	10J7MP		SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.										
13E6	I	Moonshine	31	13N	26E	7450	10J7 m		SOIL MOISTURE STATION ONLY.										
13E14m	I	Nielson's Draw	26	11N	25E	6400	10J7 a		AERIAL MARKER ONLY.										
13E4	I	Sawmill Canyon	17	12N	26E	6900	10J7 p		STORAGE PRECIPITATION GAGE ONLY.										
13E7MA	I	Wet Creek Summit	15	8N	25E	8175													

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	AVERAGE b

Lemhi River

Above Gilmore	13E19	8200	3/31	49	17.5	9.9	--
Aspen-Hall Pass	13E21	8110	3/31	43	12.3	8.6	--
Copes Camp	13E17	7500	3/30	39	11.0	8.3	--
Gertson Creek (A)	13D17	8050	3/31	42	15.2	13.2	--
Hall Creek	13E20	7560	3/31	24	6.8	4.9	--
Meadow Lake	13E18	9100	3/31	80	34.1	20.4	--
Schwartz Lake	13E16	8500	3/30	56	19.2	11.7	--

MEDICINE LODGE - CAMAS - BEAVER CREEKS

Blue Ledge Mine	11E11	6700	3/28	49	18.0	14.5	16.7
Camp Creek	12E3	6800	3/29	38	12.7	9.1	10.4
Irving Creek	12E4	7035	3/29	24	7.3	4.9	--
Kilgore	11E12	6200	3/28	33	10.9	11.0	10.0
Webber Creek	12E5	6700	3/29	30	9.4	4.0	--

HENRY'S FORK RIVER

Big Springs	11E9	6500	3/29	68	26.3	21.8	22.6
Grassy Lake	10E15	7265	3/30	103	42.6	33.1	36.8
Island Park	11E10	6315	3/29	55	20.8	15.9	17.6
Latham Springs	11E16	7650	3/29	100	40.2	32.8	--
Lucky Dog	11E14	6900	3/29	76	29.8	23.4	--
Old Road	11E15	7250	3/29	85	35.0	23.6	--
Valley View	11E8	6500	3/29	65	25.9	19.4	16.4

Teton River

Darby Canyon (A)	10F21	8250	3/29	68	21.1	18.6	--
Pine Creek Pass	11F2	6750	3/26	66	20.2	19.3	--
Pine Creek Pass	11F2	6750	4/6	52	21.0	19.3	--
State Line	11F1	6400	3/26	59	17.7	16.8	16.1
Teton Pass	10F13	8500	3/26	106	39.0	27.7	37.4
Teton Pass	10F13	8500	4/5	102	43.2	27.7	37.4

LITTLE LOST RIVER

Fairview Guard Sta.	13E5	5850	3/31	14	3.2	7.3	4.4*
Lost-Garfield	13E3	5700	3/31	17	5.0	5.7	2.7*
Moonshine	13E6	7250	4/1	51	18.0	13.4	10.9*
Sawmill Canyon	13E4	6000	4/1	38	13.0	9.6	8.0*
Wet Creek Summit	13E7	8175	4/6	66	24.9	13.6	11.2*

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation: Water content estimated.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	AVERAGE ^b

BIG LOST RIVER

Bear Canyon	13F3	8600	3/30	78	31.8	15.5	17.6*
Cherry Creek Pass (A)	13F13	8900	3/30	11	2.5	1.3	--
Copper Basin	13F2	8000	3/30	48	20.0	8.7	9.1
Iron Bog	13F11	7650	3/30	60	24.4	12.6	--
Leadbelt	13F12	6800	3/30	46	16.7	9.0	--
Lost-Wood Divide (A)	14F3	8750	3/30	89	35.8	19.7	24.3*
North Fork Meadow (A)	14F15	8150	3/30	53	20.5	11.5	--
Slickrock (A)	13F14	8640	3/30	87	35.0	14.9	--
Stickney Mill	14F2	7500	3/30	47	17.9	8.0	9.1
White Knob	13F1	7700	3/29	40	14.0	10.9	9.1*

WILLOW - SAND CREEKS

Birch Creek		6800	4/5	24	10.0	--	--
Bone		6200	3/29	28	9.2	--	--
Sheep Mountain		6600	3/29	46	14.7	--	--
Taylor Mountain		6500	3/25	22	7.9	--	--
Tex Creek		6700	3/30	35	11.0	--	--

BLACKFOOT RIVER

Austin Bros. Ranch	11G3	6450	3/30	27	9.3	11.2	8.5*
China Hat	11G2	6300	3/31	20	7.8	9.7	5.6*
Slug Creek Divide	11G5	7225	4/1	55	21.8	16.1	16.2
Somsen Ranch	11G1	7000	3/31	46	15.8	13.0	12.6*

PORTNEUF RIVER

Dempsey Creek	12G5	6280	3/30	38	12.9	13.0	12.3*
Mink Creek	12G1	6300	3/31	42	14.7	17.4	16.6
Pebble Creek	12G2	6550	3/30	45	17.6	15.4	14.6

BEAR RIVER

Emigrant Summit	11G6	7350	3/30	81	33.7	23.8	24.9
Emigration Canyon	11G7	6500	3/30	34	12.2	12.2	10.5*

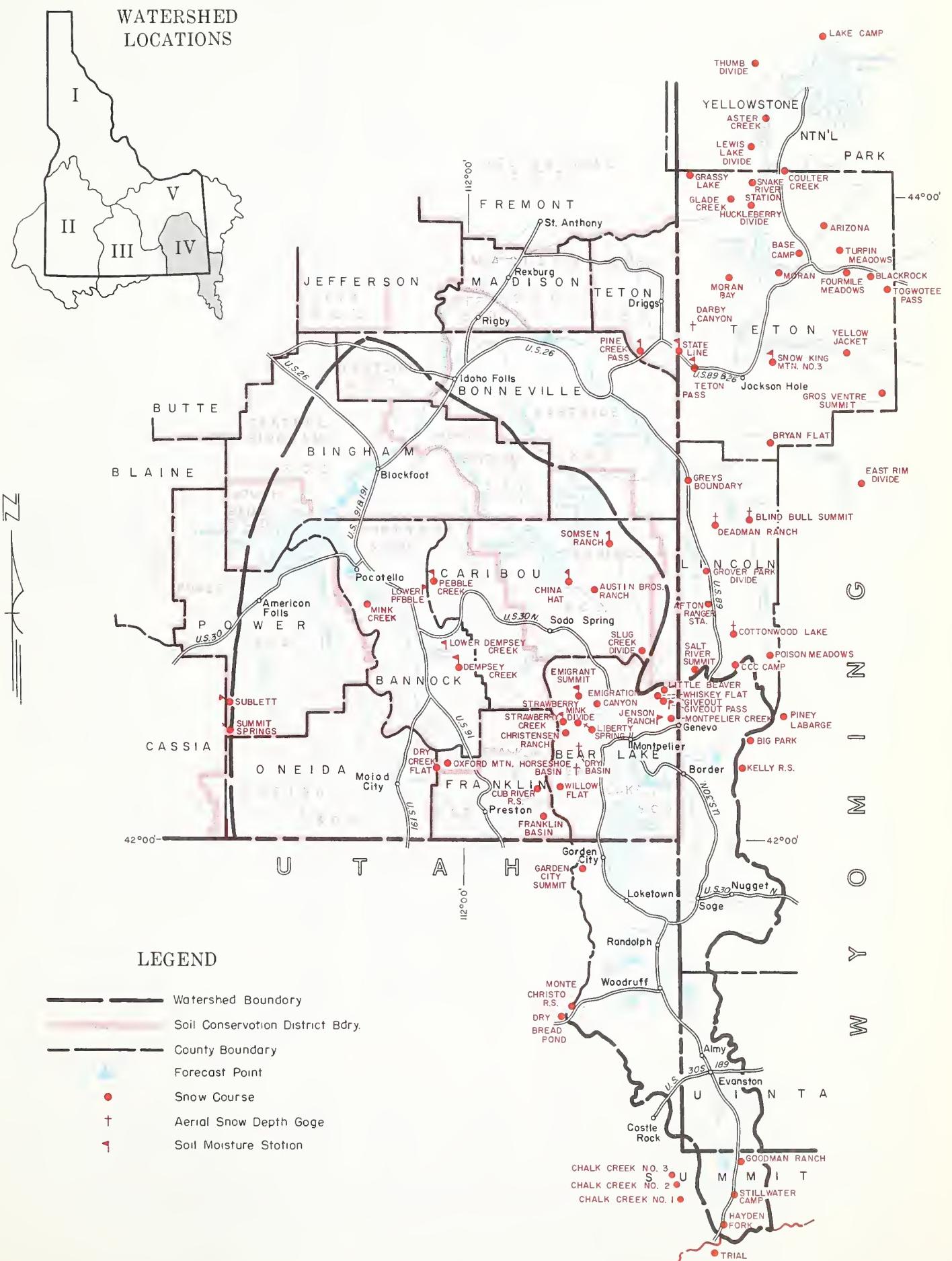
Montpelier Creek

Giveout	11G16	6840	3/31	50	17.4	13.4	--
Little Beaver	11G20	6970	3/31	57	20.5	17.4	--
Montpelier Creek	11G18	6570	3/31	33	11.4	8.7	--
Whiskey Flat	11G21	6985	3/31	39	13.5	8.9	--

(b) 1948-62, 15 year period. ^a Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation: Water content estimated.

UPPER SNAKE, BLACKFOOT, PORTNEUF, BEAR, MALAD WATERSHEDS

25 0 25 50
SCALE IN MILES



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. LAT.	TWP. OR ANO	RGE. LONG.	ELEV.	NO.	STATE	NAME	SEC. LAT.	TWP. OR ANO	RGE. LONG.	ELEV.
SNAKE RIVER - WYOMING							PORTNEUF RIVER						
10G4	WY	Afton Ranger Station	30	32N	118W	6200	12G5M	I	Dempsey Creek	17	10S	38E	6280
10F1	WY	Arizona	3	46N	115W	6850	12G7m	I	Lower Dempsey	5	10S	38E	5210
10E8	WY	Aster Creek	44°17'		110°38'	7700	12G6m	I	Lower Pebble	7	8S	38E	5800
10F2	WY	Base Camp	20	46N	113W	6900	12G1	I	Mink Creek	33	7S	34E	6300
10F7	WY	Blackrock	4	44N	111W	8600	12G2M	I	Pebble Creek	34	7S	37E	6550
10G2A	WY	Blind Bull	6	34N	115W	8750	BEAR RIVER						
10F14	WY	Bryan Flat	9	38N	115W	6250	10G11	Wy	Big Park	7	27N	117W	8700
10E3	WY	Canyon	44°44'		110°30'	7750	11G11	I	Christensen Ranch	27	13S	41E	5600
10G7	WY	CCC Camp	9	29N	118W	7500	11G12	I	Cub River Ranger Station	5	15S	41E	5400
10G5A	WY	Cottonwood Lake	25	31N	118W	7500	11G14a	I	Dry Basin	30	13S	42E	7900
10E10	WY	Coulter Creek	44°09'		110°33'	7600	11H13MP	U	Dry Bread Pond	19	8N	4E	8230
10G1A	WY	Deadman Ranch	26	34N	116W	6534	11G6M	I	Emigrant Summit	21	12S	42E	7350
10F17	WY	East Rim Divide	32	37N	111W	7950	11G7	I	Emigration Canyon (mouth)	24	12S	42E	6500
10F6	WY	Four Mile Meadows	35	45N	112W	7770	11G8M	I	Franklin Basin	1	16S	41E	8000
10E13	WY	Glade Creek	12	48N	116W	7200	11H7P	U	Garden City Summit	35	14N	4E	7600
10F18	WY	Greys Boundary	33	37N	118W	5800	10J6	U	Goodman Ranch	19	3N	10E	7900
10F19	WY	Gros Ventre Summit	36	40N	111W	8750	10J7	U	Hayden Fork	1	1S	9E	9300
10G3	WY	Grover Park Divide	27	33N	118W	7500	11G15a	I	Horseshoe Basin	31	13S	42E	8000
10E14	WY	Huckleberry Divide	32	48N	115W	7300	10G12	Wy	Kelly Ranger Station	13	26N	118W	8200
10E4	WY	Lake Camp	44°34'		110°24'	7850	11G13A	I	Liberty Spring	7	13S	42E	8600
10E9	WY	Lewis Lake Divide	44°13'		110°40'	7900	11H12P	U	Monte Cristo R. S.	3	8N	4E	8960
10F4	WY	Moran	8 & 17	45N	114W	6800	10G10	W	Piney LaBarge x	19	29N	114W	8820
10F3	WY	Moran Bay	14	45N	116W	6800	10J17P	U	Stillwater Camp	32	2N	10E	8550
10E2	WY	Norris Basin	44°44'		110°42'	7500	11G10	I	Strawberry Mink Divide	14	13S	41E	6800
10G6	WY	Poison Meadows	29	30N	116W	8500	11G9M	I	Strawberry Creek	9	13S	41E	5800
10G8	WY	Salt River Summit	32	29N	118W	7900	11G4P	I	Willow Flat	2	15S	41E	6100
10E12	WY	Snake River Station	9	48N	115W	6780	MALAD RIVER						
10F20	WY	Snow King Mountain #3	4	40N	117W	7600	12G4	I	Dry Creek Flat	31	13S	37E	6350
10E5	WY	Sylvan Pass	12	52N	110W	7100	12G3	I	Oxford Mountain	32	13S	37E	6800
10E7	WY	Thumb Divide	44°22'		110°35'	7900	11G16	I	Giveout	35	11S	45E	6840
10F9	WY	Togwotee Pass	29	44N	110W	9600	11G17m	I	Giveout Pass	2	12S	45E	7025
10F5	WY	Turpin Meadows	14	45N	112W	6930	11G19m	I	Jenson Ranch	15	12S	45E	6580
10F10	WY	Yellowjacket	33	42N	112W	7675	11G20	I	Little Beaver	26	11S	45E	6970
TETON RIVER							11G18	I	Montpelier Creek	22	12S	45E	6570
10F21a	WY	Derby Canyon	28	43N	118W	8250	11G21	I	Whiskey Flat	26	11S	45E	6985
11F2M	I	Pine Creek Pass	24	3N	44E	6750	MONTPELIER CREEK						
11F1M	I	State Line	32	3N	46E	6400	11G16	I	Giveout	35	11S	45E	6840
10F13M	WY	Teton Pass	24	41N	118W	8500	11G17m	I	Giveout Pass	2	12S	45E	7025
BLACKFOOT RIVER							11G19m	I	Jenson Ranch	15	12S	45E	6580
11G3	I	Austin Brothers Ranch	28	7S	43E	6450	11G20	I	Little Beaver	26	11S	45E	6970
11G2M	I	China Hat	17	7S	42E	6300	11G18	I	Montpelier Creek	22	12S	45E	6570
11G5	I	Slug Creek Divide	15	10S	44E	7225	11G21	I	Whiskey Flat	26	11S	45E	6985
11G1M	I	Somson Ranch	25	5S	43E	7000							

LEGEND

Numbering System (example)

- 10J7 SNOW COURSE ONLY.
- 10J7P SNOW COURSE AND PRECIPITATION GAGE.
- 10J7M SNOW COURSE AND SOIL MOISTURE STATION.
- 10J7A SNOW COURSE AND AERIAL MARKER.
- 10J7MA SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
- 10J7MP SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
- 10J7 m SOIL MOISTURE STATION ONLY.
- 10J7 a AERIAL MARKER ONLY.
- 10J7 p STORAGE PRECIPITATION GAGE ONLY.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	AVERAGE ^b

Mink Creek

Christensen Ranch	11G11	5600	3/30	22	7.3	10.6	8.6*
Dry Basin (A)	11G14	7900	4/4	99	43.1	26.3	--
Horseshoe Basin (A)	11G15	8000	4/4	99	43.1	24.5	--
Liberty Spring	11G13	8600	3/29	120	52.2	35.4	--
Strawberry Creek	11G9	5800	3/30	33	12.0	13.1	12.1*
Strawberry-Mink Divide	11G10	6800	3/30	68	27.7	21.4	22.6*

Cub River

Cub River R. S.	11G12	5400	4/2	11	4.4	11.4	7.6*
Franklin Basin	11G8	8000	3/31	91	39.4	25.2	29.1
Willow Flat	11G4	6100	4/2	37	15.7	18.1	15.2*

MALAD RIVER

Dry Creek Flat	12G4	6350	4/1	7	3.2	10.1	4.1*
Oxford Mountain	12G3	6800	4/1	28	11.0	11.1	8.2*

BIG WOOD RIVER

Camas Creeks Div. (A)	15F9	5720	3/28	18	6.4	13.2	--
#Couch Summit	14F10	6950	3/30	67	24.3	15.6	20.0
Dollarhide Summit	14F8	8620	3/25	93	39.4	22.2	27.4*
Dollarhide Summit(A)	14F8	8620	3/30	95	40.3	22.2	27.4*
Galena	14F1	7300	3/29	78	31.8	18.7	19.5
Galena Summit	14F12	8795	3/29	98	39.4	24.2	24.3*
Graham Ranch	14F5	6200	3/29	56	21.6	13.2	13.4
#Lost-Wood Divide (A)	14F3	8750	3/30	89	35.8	19.7	24.3*
Mascot Mine	14F7	7900	3/20	60	23.3	11.3	15.7
Mount Baldy	14F9	9000	3/31	86	34.2	17.6	21.8*
Soldier Rgr. Sta.	14F11	6100	3/30	31	13.2	9.4	11.3

Little Wood River - Fish Creek

Garfield Rgr. Sta.	13F4	6550	3/24	43	17.2	8.8	10.5*
Iron Mine Creek	13F10	6370	3/23	44	15.6	8.8	10.5*
Muldoon	13F5	6300	3/24	34	12.0	7.2	7.1*
Porcupine (A)	14F14	8350	3/30	67	26.8	15.9	--
Swede Peak	13F9	7500	3/24	69	27.6	14.4	17.4*
Swede Peak (A)	13F9	7500	3/30	74	29.6	14.4	17.4*
Telfer Ranch	13F6	6000	3/23	32	13.2	7.4	5.8*

RAFT RIVER

Boy Scout Camp	13G2	7600	3/30	45	16.6	13.7	16.9*
Clear Creek Meadows	13H2	9050	3/30	71	25.8	18.2	--
Howell Canyon	13G1	8000	3/30	75	31.8	25.9	27.6*

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (inches)	WATER CONTENT (Inches)	AVERAGE ^b

One Mile Summit	13H1	7330	3/30	31	9.3	7.8	--
Sheep Hollow	13G5	6200	3/30	7	2.8	7.0	--
Sublett	13G3	6000	3/30	32	11.1	13.7	11.4
Summit Springs	13G4	8500	3/30	26	9.5	12.0	9.6*

GOOSE CREEK

Badger Gulch	14G3	6660	3/30	39	12.6	15.1	14.3
Bostetter Rgr. Sta.	14G1	7500	3/30	59	23.0	20.1	21.0
Vi Pont	13H3	7670	3/30	48	16.0	13.0	--

SALMON FALLS CREEK

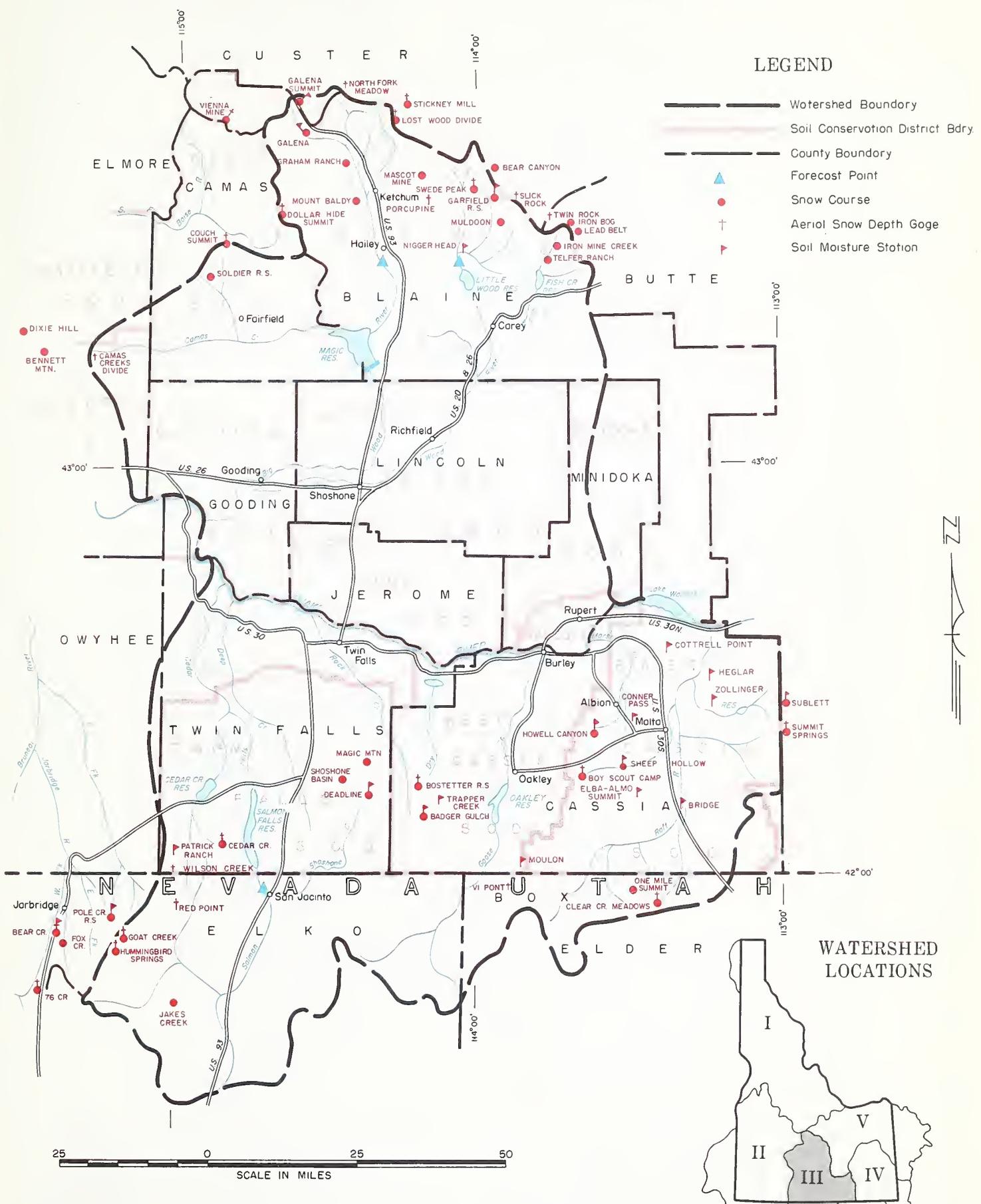
#Bear Creek	15H1	7800	3/29	72	25.7	19.8	21.0
Cedar Creek	14G5	7000	3/29	32	9.8	12.2	11.9*
Deadline	14G4	6900	3/28	78	29.9	26.0	24.4*
#Fox Creek	15H2	6800	3/29	32	10.7	12.6	10.9
Goat Creek	15H13	8800	3/29	64	22.4	18.2	19.5*
#Hummingbird Springs	15H15	8945	3/29	82	30.4	21.2	23.0*
Magic Mountain	14G2	6700	3/28	66	23.7	20.8	19.9
#Pole Creek R. S.	15H14	8330	3/29	74	27.1	21.6	20.2*
Red Point	15H18	7940	3/29	37	11.0	17.0	--
Shoshone Basin	14G6	5740	3/29	T	T	10.2	3.3*
Wilson Creek	15G2	7500	3/29	40	14.0	14.0	--

BOISE RIVER

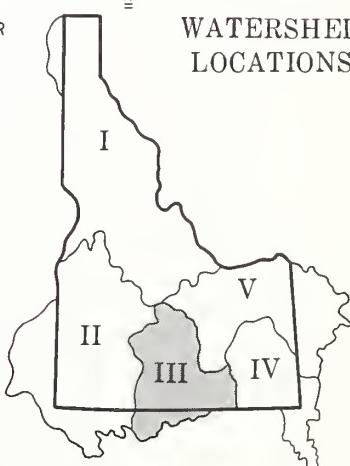
Atlanta Summit (A)	15F4	7500	3/28	125	49.1	31.6	36.6
Bad Bear	15F2	5500	3/29	60	23.0	17.2	--
Bennett Mountain	15F7	6650	3/28	64	22.6	18.6	--
#Bogus Basin	16F2	6120	4/1	78	30.9	21.3	25.1
#Bogus Basin Pillow	16F2	6120	4/1	--	33.6	--	--
Bogus Basin Road	16F4	5360	3/30	4	1.4	8.7	2.2*
#Camas Creeks Div. (A)	15F9	5720	3/28	18	6.4	13.2	--
Couch Summit	14F10	6950	3/30	67	24.3	15.6	20.0
Danskin (A)	15F10	5650	3/28	37	13.1	11.9	--
Deadman Gulch	16F1	5200	4/2	60	22.6	--	17.4*
#Dollarhide Summit (A)	14F8	8620	3/25	93	39.4	22.2	27.4*
Jackson Peak (A)	15E9	7000	4/5	117	46.2	29.9	32.6*
Little Camas Flat (A)	15F12	4950	3/28	8	2.9	10.6	--
Long Tom (A)	15F13	4550	3/28	T	T	6.7	--
Moores Creek Summit	15F1	6100	3/30	117	45.4	30.6	34.0
Prairie	15F6	5600	3/28	11	2.0	6.6	4.8*
Road Creek	15F3	5400	3/28	47	14.9	12.1	12.1*
#Soldier Rgr. Sta.	14F11	6100	3/30	31	13.2	9.4	11.3
Trinity Mountain	15F5	7400	3/28	150	65.2	34.1	46.2
Vienna Mine	14F4	8900	3/30	117	52.3	33.6	37.1*
Willow Creek Cabin (A)	15F11	4710	3/28	T	T	7.7	--

(b) 1948-62, 15 year period. * Not located directly on this drainage. • Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated.

SNAKE RIVER, BIG WOOD, LITTLE WOOD, RAFT, GOOSE CREEK, SALMON FALLS CREEK WATERSHEDS



WATERSHED LOCATIONS



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			OR			
			LAT.	ANO	LONG.	

RAFT RIVER

13G2A	I	Boy Scout Camp	12	14S	23E	7600
13G11m	I	Bridge	7	15S	27E	4750
13H2A	U	Clear Creek Meadows	26	14N	14W	9050
13G6	I	Conner Pass	35	12S	25E	5700
13G7m	I	Cottrell Point	24	10S	25E	4490
13G10m	I	Elba-Almo Summit	29	14S	25E	5690
13G8m	I	Heglar	19	11S	28E	4590
13G1M	I	Howell Canyon	2	13S	24E	8000
13G12m	I	Moulton	27	16S	23E	5950
13H1	U	One Mile Summit	19	14N	14W	7330
13G5M	I	Sheep Hollow	4	14S	24E	6200
13G3M	I	Sublett	8	12S	30E	6000
13G4A	I	Summit Springs	15	13S	30E	8500
13G9m	I	Zollinger	2	13S	28E	5000

GOOSE - TRAPPER CREEK

14G3M	I	Badger Gulch	24	15S	19E	6660
14G1A	I	Bostetter Ranger Station	35	14S	19E	7500
14G7m	I	Trapper Creek	2	15S	20E	5300
13H3a	U	Vi Pont	17	14N	17W	7670

SALMON FALLS CR. - BRUNEAU RIVER

15HLMA	N	Bear Creek	31	46N	58E	7800
14G5A	I	Cedar Creek	25	15S	13E	7000
14G4M	I	Deadline	25	14S	18E	6900
15H2	N	Fox Creek	33	46N	58E	6800
15H13A	N	Goat Creek	31	46N	60E	8800
15H15A	N	Hummingbird Springs	6	45N	60E	8945
14H1	N	Jakes Creek	6	42N	62E	7000
14G2	I	Magic Mountain	14	14S	18E	6700
15G1M	I	Patrick Ranch	23	15S	12E	5720
15H14M	N	Pole Creek Ranger Station	13	46N	59E	8330
15H18a	N	Red Point	15	47N	61E	7940
15H3A	N	Seventy Six Creek	6	44N	58E	7100
14G6	I	Shoshone Basin	24	14S	17E	5740
15G2a	I	Wilson Creek	24	16S	12E	7500

BIG WOOD RIVER

14F8A	I	Dollar Hide Summit	16	3N	15E	8620
14F1M	I	Galena	3	6N	15E	7300
14F12M	I	Galena Summit	33	7N	15E	8795
14F5	I	Graham Ranch	10	5N	17E	6200
14F7	I	Mascot Mine	8	4N	20E	7900
14F9	I	Mount Baldy	26	4N	17E	9000
14F11	I	Soldier Ranger Station	19	2N	14E	6100

LITTLE WOOD RIVER

13F4M	I	Garfield Ranger Station	11	3N	21E	6554
13F10	I	Iron Mine Creek	32	3N	23E	6370
13F5	I	Muldoon	25	3N	21E	6300
14F13m	I	Niggerhead	26	2N	20E	5450
14F14a	I	Porcupine	30	4N	20E	8350
13F9A	I	Swede Peak	4	3N	21E	7500
13F6	I	Telfer Ranch	12	2N	22E	6000

LEGEND

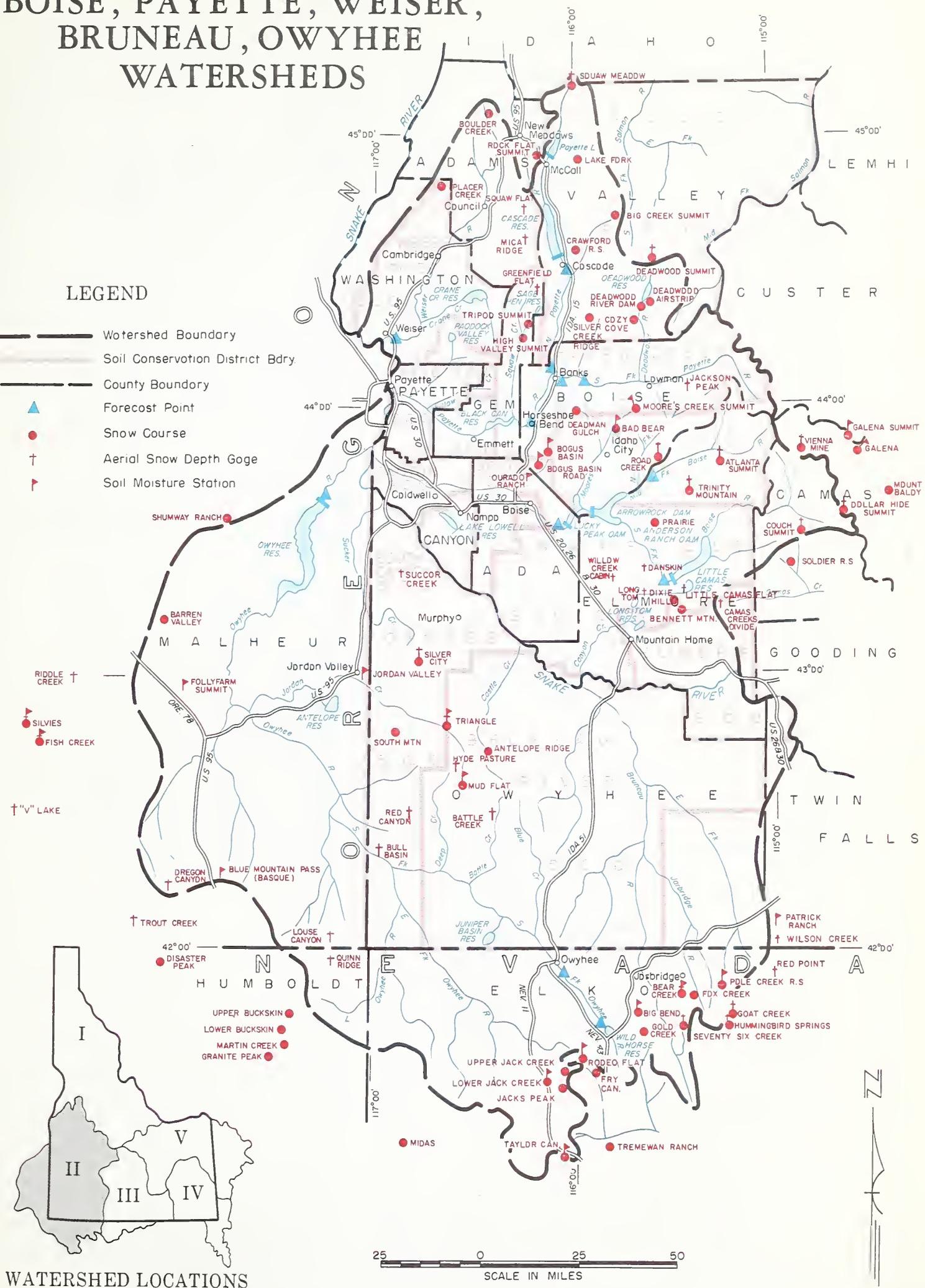
Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7 m	SOIL MOISTURE STATION ONLY.
10J7 a	AERIAL MARKER ONLY.
10J7 p	STORAGE PRECIPITATION GAGE ONLY.

BOISE, PAYETTE, WEISER, BRUNEAU, Owyhee WATERSHEDS

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- ▲ Forecast Point
- Snow Course
- † Aerial Snow Depth Gage
- Soil Moisture Station



WATERSHED LOCATIONS

INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. OR LAT.	TWP. OR AND	RGE. LONG.	ELEV.	NO.	STATE	NAME	SEC. OR LAT.	TWP. OR ANO	RGE. LONG.	ELEV.							
SALMON FALLS CR. - BRUNEAU RIVER																				
15H1MA	N	Bear Creek	31	46N	58E	7800	16F3A	I	Silver City	6	5S	3W	6400							
14G5A	I	Cedar Creek	25	15S	13E	7000	18G1MA	O	Silvies	35	32S	33E	6900							
14G4M	I	Deadline	25	14S	18E	6900	16G1	I	South Mountain	35	7S	5W	6340							
15H2	N	Fox Creek	33	46N	58E	6800	16F6a	I	Succor Creek	25	3S	5W	6100							
15H13A	N	Goat Creek	31	46N	60E	8800	15H9M	N	Taylor Canyon	35	39N	53E	6200							
15H15A	N	Hummingbird Springs	6	45N	60E	8945	15H8	N	Tremewan Ranch	9	39N	53E	5700							
14H1	N	Jakes Creek	6	42N	62E	7000	16G4AM	I	Triangle	N $\frac{1}{2}$ 25	7S	3W	5150							
14G2	I	Magic Mountain	14	14S	18E	6700	18G5a	O	Trout Creek	10	41S	38E	7800							
15G1m	I	Patrick Ranch	23	15S	12E	5720	17H1	N	Upper Buckskin	11	45N	39E	7200							
15H14M	N	Pole Creek Ranger Station	13	46N	59E	8330	16H2	N	Upper Jack Creek	9	42N	53E	7250							
15H18a	N	Red Point	15	47N	61E	7940	18G7a	O	"V" Lake	31	35 $\frac{1}{2}$ S	32 3/4E	6600							
15H3A	N	Seventy Six Creek	6	44N	58E	7100	PAYETTE RIVER													
14G6	I	Shoshone Basin	24	14S	17E	5740	15E2	I	Big Creek Summit	24	15N	5E	6608							
15G2a	I	Wilson Creek	24	16S	12E	7500	16F2M	I	Bogus Basin	16	5N	3E	6120							
BIG WOOD RIVER																				
14F8A	I	Dollar Hide Summit	16	3N	15E	8620	15E8	I	Cozy Cove	19	11N	7E	5900							
14F1M	I	Galena	3	6N	15E	7300	15E3	I	Crawford Ranger Station	21	14N	4E	4800							
14F12M	I	Galena Summit	33	7N	15E	8795	15E10	I	Deadwood Airstrip	8	11N	7E	5440							
14F9	I	Mount Baldy	26	4N	17E	9000	15B7	I	Deadwood River Dam	8	11N	7E	5290							
14F11	I	Soldier Ranger Station	19	2N	14E	6100	15E4A	I	Deadwood Summit	23	14N	7E	7000							
BOISE RIVER																				
15F4A	I	Atlanta Summit	29	5N	10E	7500	16B7a	I	Greenfield Flat	1	13N	2E	7370							
15F2M	I	Bad Bear	35	7N	6E	5500	16E4	I	High Valley Summit	9	10N	2E	5170							
15F7	I	Bennett Mountain	7	2S	9E	6650	15E1	I	Lake Fork	3	18N	4E	6000							
16F4	I	Bogus Basin Road	32	5N	3E	5360	16E1	I	Rock Flat Summit	1	18N	2E	5200							
16F5m	I	Bogus Basin Road	36	5N	2E	4830	15E5A	I	Silver Creek Ridge	24	12N	5E	5700							
15F9a	I	Camas Creeks Divide	11	2S	9E	5720	15D2A	I	Squaw Meadow	5	21N	4E	5800							
14F10A	I	Couch Summit	9	2N	14E	6950	16E3	I	Tripod Summit	17	11N	3E	5200							
15F10a	I	Danskin	17	1N	7E	5650	WEISER RIVER													
16F1	I	Deadman Gulch	24	7N	3E	6500	16D1	I	Boulder Creek	15	20N	1W	5500							
15F8	I	Dixie Hill	13	2S	8E	5230	16E6a	I	Mica Ridge	15	15N	2E	6800							
15E9A	I	Jackson Peak	7	8N	9E	7000	16E5a	I	Squaw Flat	32	17N	2E	6230							
15F12a	I	Little Camas Flat	21	1S	9E	4950	16E2	I	Placer Creek	15 & 16	17N	3W	6000							
15F13a	I	Long Tom	19	1S	8E	4550	LEGEND													
15F1M	I	Moores Creek Summit	19	7N	7E	6100	10J7		SNOW COURSE ONLY.											
15F6	I	Prairie	13	2N	7E	5600	10J7P		SNOW COURSE AND PRECIPITATION GAGE.											
15F3A	I	Road Creek	5	5N	8E	6800	10J7M		SNOW COURSE AND SOIL MOISTURE STATION.											
15F5A	I	Trinity Mountain	7	3N	9E	7400	10J7A		SNOW COURSE AND AERIAL MARKER.											
15F11a	I	Willow Creek Cabin	26	1N	6E	4710	10J7MA		SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.											
OWYHEE RIVER																				
16G6	I	Antelope Ridge	20	8S	1E	5900	10J7MP		SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.											
18F5	O	Barren Valley	26	27S	38E	4200	10J7 m		SOIL MOISTURE STATION ONLY.											
16G9a	I	Battle Creek	10	11S	1E	5700	10J7 a		AERIAL MARKER ONLY.											
15H4M	N	Big Bend	30	45N	56E	6700	10J7 p		STORAGE PRECIPITATION GAGE ONLY.											
17G2m	O	Blue Mountain Pass (Basque)	4	38S	42E	5290														
16G10a	I	Bull Basin	29	12S	6W	5600														
18H1	N	Disaster Peak	8	47N	34E	6500														
18G2MA	O	Fish Creek	4	33S	33E	7900														
18G3m	O	Folly Farm Summit	8	30S	38E	4450														
15H7	N	Fry Canyon	31	43N	54E	6700														
15H5	N	Gold Creek	31	45N	56E	6600														
17H4	N	Granite Peak	22	44N	39E	7800														
16G5a	I	Hyde Pasture	SE $\frac{1}{4}$ 31	8S	2W	5800														
16H4	N	Jacks Peak	28	42N	53E	8420														
17G3m	O	Jordan Valley	2	30S	46E	4390														
16H5	N	Laurel Draw	20	45N	53E	6700														
17G6a	O	Lookout Butte	2	40S	47E	5650														
17G4a	O	Louse Canyon	27	40S	44E	6440														
17H2	N	Lower Buckskin	25	45N	39E	6700														
16H1M	N	Lower Jack Creek	18	42N	53E	6800														
17H3	N	Martin Creek	18	44N	40E	6700														
16H3	N	Midas	18	39N	46E	7200														
16G7M	I	Mud Flat	34	9S	2W	5500														
17G5a	O	Oregon Canyon	9	40S	40E	6950														
17H6a	N	Quinn Ridge	9	47N	41E	6300														
16G11a	I	Red Canyon	32	11S	4W	6650														
15H6M	N	Rodeo Flat	36	43N	53E	6800														

Numbering System (example)

10J7

SNOW COURSE ONLY.

10J7P

SNOW COURSE AND PRECIPITATION GAGE.

10J7M

SNOW COURSE AND SOIL MOISTURE STATION.

10J7A

SNOW COURSE AND AERIAL MARKER.

10J7MA

SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.

10J7MP

SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.

10J7 m

SOIL MOISTURE STATION ONLY.

10J7 a

AERIAL MARKER ONLY.

10J7 p

STORAGE PRECIPITATION GAGE ONLY.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (inches)	AVERAGE ^b

PAYETTE RIVER

#Big Creek Summit	15E2	6600	4/2	122	49.4	32.1	38.5
Bogus Basin	16F2	6120	4/1	78	30.9	21.3	25.1
Bogus Basin Pillow	16F2	6120	4/1	--	33.6	--	--
Brundage Mountain	16D6	7700	3/26	145	58.2	--	--
Cozy Cove	15E8	5900	3/28	56	20.8	17.1	17.2
Crawford Rgr. Sta.	15E3	4800	4/2	22	8.4	9.7	6.9*
#Deadman Gulch	16F1	5200	4/2	60	22.6	--	17.4*
Deadwood Airstrip	15E10	5440	3/27	56	19.0	15.9	16.1*
Deadwood Dam	15E7	5500	3/28	58	20.3	16.1	19.1
Deadwood Summit (A)	15E4	7000	3/30	147	60.0	38.6	48.5
Greenfield Flat (A)	16E7	7370	3/28	141	55.4	40.6	--
High Valley Summit	16E4	5170	3/30	41	16.4	17.4	--
#Jackson Peak (A)	15E9	7000	4/5	117	46.2	29.9	32.6*
Lake Fork	15E1	6000	3/26	61	21.0	20.3	17.3
Rock Flat Summit	16E1	5200	3/26	69	23.1	19.3	19.9
Silver Creek Ridge (A)	15E5	5700	4/5	51	19.2	19.0	--
Squaw Meadow (A)	15D2	5800	3/28	93	36.5	35.0	41.0
Tripod Summit	16E3	5200	3/30	58	23.1	21.3	--

WEISER RIVER

Boulder Creek	16D1	5500	3/29	78	33.4	24.4	25.2
Mica Ridge (A)	16E6	6800	3/28	107	42.1	35.1	--
Placer Creek	16E2	6000	3/29	58	17.8	16.7	19.2
Squaw Flat (A)	16E5	6230	3/28	83	32.6	27.3	--

BRUNEAU RIVER

Bear Creek	15H1	7800	3/29	72	25.7	19.8	21.0
Fox Creek	15H2	6800	3/29	32	10.7	12.6	10.9
Hummingbird Springs	15H15	8945	3/29	82	30.4	21.2	23.0*
Pole Creek Rgr. Sta.	15H14	8330	3/29	74	27.1	21.6	20.2*
#Seventy-six Creek	15H3	7100	3/29	35	12.2	11.4	14.5*

OWYHEE RIVER

Antelope Ridge	16G6	5900	3/26	8	2.9	10.9	--
Battle Creek (A)	16G9	5700	3/29	0	0.0	8.1	--
#Bear Creek	15H1	7800	3/29	72	25.7	19.8	21.0
Bull Basin (A)	16G10	5600	3/29	0	0.0	1.8	--
#Fox Creek	15H2	6800	3/29	32	10.7	12.6	10.9
Hyde Pasture (A)	16G5	5800	3/29	3	1.2	8.4	--
Mud Flat	16G7	5500	3/26	13	4.7	9.2	4.5*
Red Canyon (A)	16G11	6650	3/29	10	4.0	8.7	--
#Seventy-six Creek	15H3	7100	3/29	35	12.2	11.4	14.5*
Silver City	16F3	6400	3/23	44	18.6	--	--
Silver City (A)	16F3	6400	3/29	48	19.7	17.0	16.3*
South Mountain	16G1	6340	3/30	29	12.5	13.4	13.2*
Succor Creek (A)	16F6	6100	3/29	12	4.8	9.6	--
Triangle (A)	16G4	5150	3/29	0	0.0	1.8	--

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation: Water content estimated.

APPENDIX

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	AVERAGE b

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation: Water content estimated.

Agencies Assisting with Snow Surveys , etc.

GOVERNMENT AGENCIES

Canada:

Department of Lands, Forests, and
Water Resources, British Columbia
Department of Resources and Development,
Water Resources Division

States:

Idaho State Reclamation Engineer
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers

U. S. Department of Agriculture
Forest Service
Agricultural Research Service

U. S. Department of Commerce
Weather Bureau

U. S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Geological Survey
Indian Service
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Boise Project Board of Control
Little Wood River Irrigation District
Jordan Valley Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Twin Lakes Irrigation Company
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

PRIVATE CORPORATIONS

Amalgamated Sugar Company

*Other organizations and individuals furnish valuable information for
snow survey reports. Their cooperation is gratefully acknowledged.*

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SOIL CONSERVATION SERVICE
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supply, hydro-electric power
generation, navigation,
mining and industry

—
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with the Snow Survey”